FineReport V10.0

A Product Introduction

FanRuan
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After **16 years** of development, we have become “The Most Powerful Big Data BI and Analytics Software Vendor” in China

2006

FanRuan started the exploration in BI industry.
Released FineReport V3.0.

2012

Became the front runner of reporting software.
Market share ranks the 1st in BI industry.

2013

Released FineBI V1.0.
Led a self-service BI trend in China.

2015

Sales exceed 14 million USD.
Led China's BI development into a new era.

2020

Annual sales exceed 130 million USD.
Still grows at a high speed.

2021

Annual sales exceed **180 million USD**.
Maintain healthy and static growth.

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Headquarter in Wuxi, Over **1600** Employees, **15** Global Branch Offices

Distribution

- Headquarter: Wuxi
- **15 Global Branches**:

  Mainland China, Taiwan, Southeast Asia,

  Japan, Korea, the US, Europe, etc.

Enterprise Scale

- Employees over 1600
- **Ranks 1st** in China's BI market

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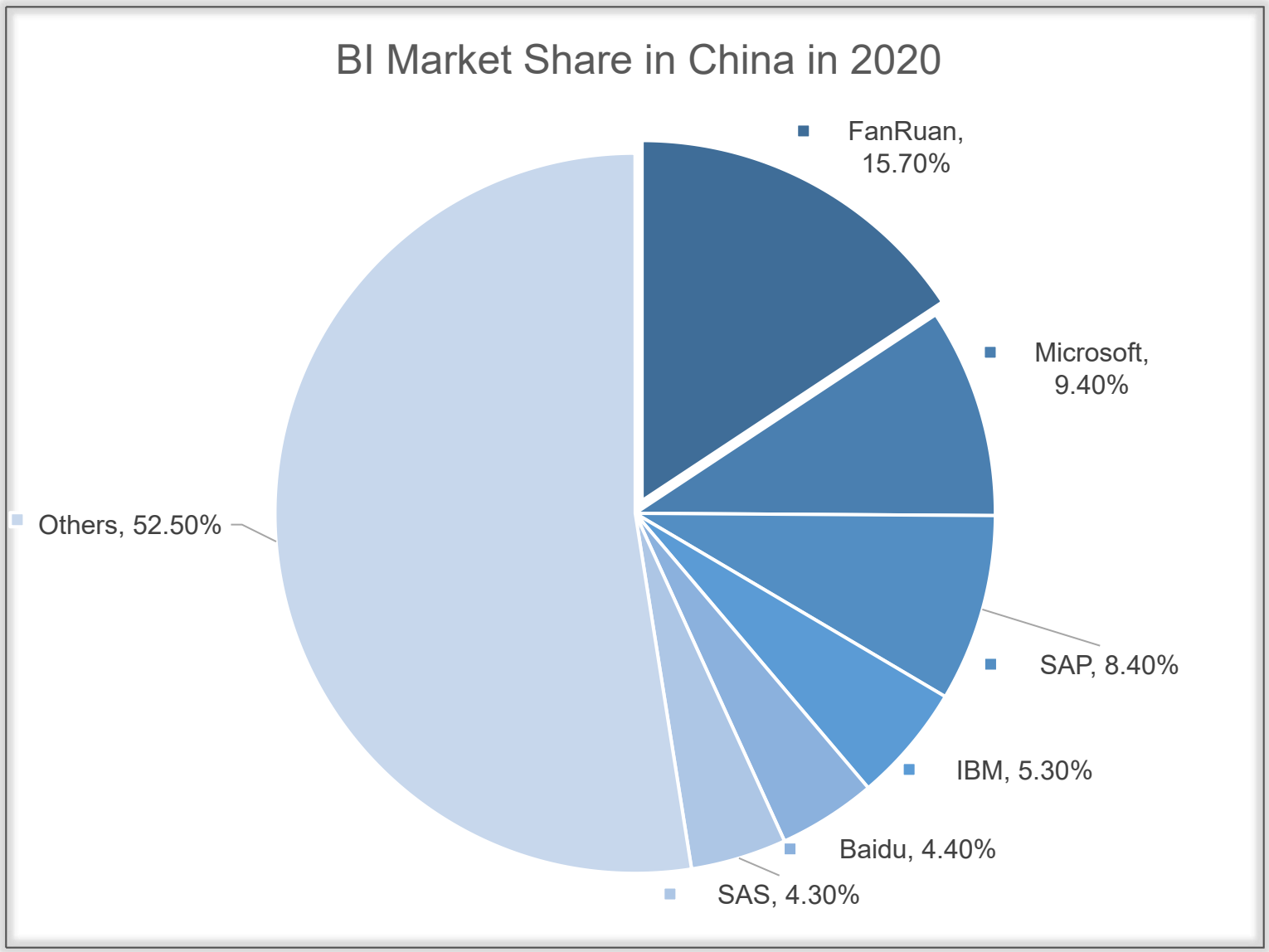
FanRuan Has been Approved by a Great Number of Organizations



Forbes

IDC

Gartner

CCID

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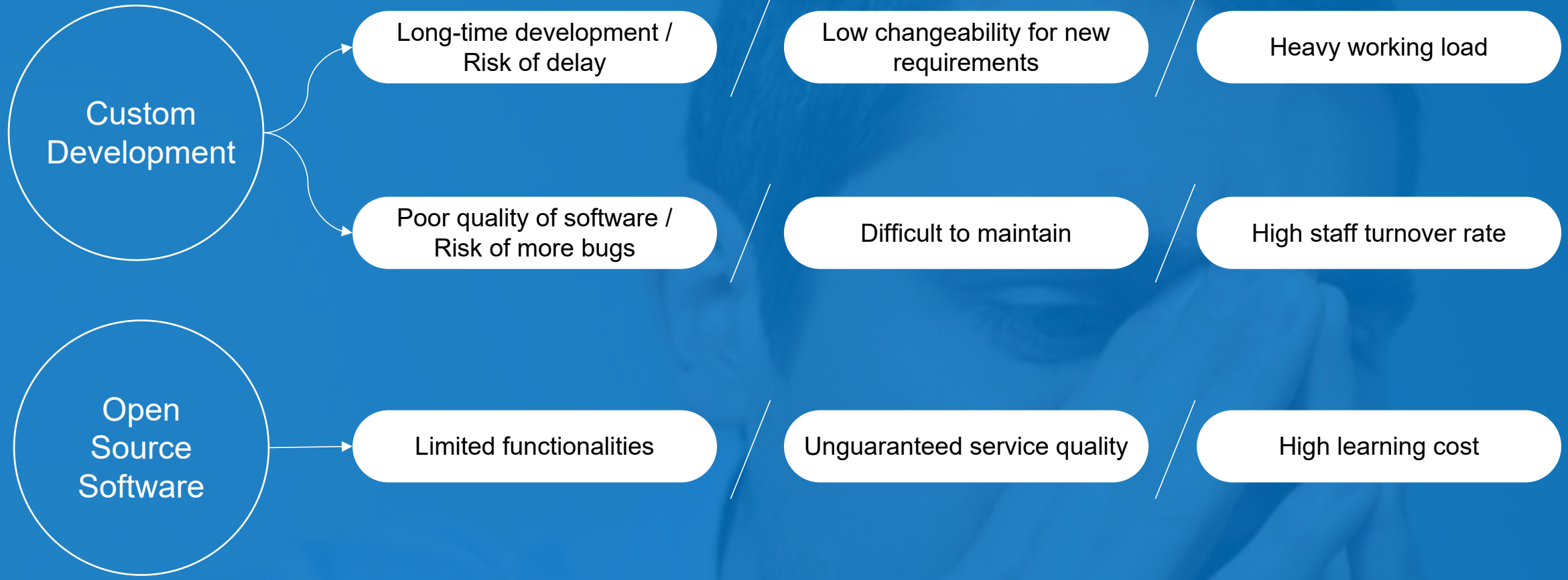
01

Why choose FineReport

1.1 Software Companies are Trapped with Custom Code or OSS



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All the Problems above have Brought Uncertain Risks to Customers

In the short term,
delayed deliveries will result in
An uneconomic project

In the long term,
the competitiveness of enterprise
will drop

>> CIOs need powerful, flexible and extensible business reporting tools to develop reports quickly and accelerate the project progress

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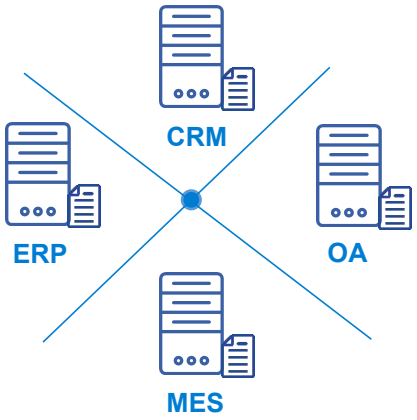
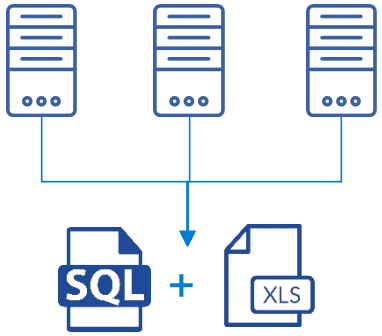
1.2 Corporate Users are Trapped by Data Islands, Low Efficiency and Low Utilization Rate

Data Islands



In every business systems Independent reports and analysis method will lead to the problem of data island, also the system lacks of a unified data analysis platform.

Low Efficiency



Cross-system report making and data analysis require us to work in the traditional way such as using SQL + Excel, which will lead to low work efficiency.

Low Utilization Rate

Traditional method of making reports and data analyses are limited in features & application scenarios. Tools are only available for senior managers.

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All the Problems above will Negatively Impact Enterprises 'Management and Operation

Useful information cannot reach to managers effectively

Decisions are only made by instinct

Increasing data asset turnover brings overall loss to enterprise

>> Enterprises need to choose professional business reporting tools in order to make good use of data assets and realize the importance of data-driven management.

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1.3 How does FineReport solve the problems?

Associate multiple data sources.

Support multiple data sources.

Enable cross-database and cross-table data access and connection.

Able to integrate business data from different sources to one single report, make use of more data to improve business analysis and business control.

Designer requires zero coding.

Improve development efficiency, quickly respond to changing requirements, and easily accomplish complex report formats, parameter queries, chart analysis, data drilling, and dashboards.

Provide a unified report access and management platform, and achieve more detailing authorization control.

Powerful data entry functionalities.

Forms can be designed quickly and used on both PCs and mobile devices.

Customers can add, delete and modify data records in forms which is later used to update company database, helping companies improve data assets.

Support importing historical Excel data, data validation, and ensuring data normality.

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02

Report Designer

2.1 FR Application Architecture : Report Designer and Server

Report Designer (design reports)

Prepare Data

RDB	NoSQL DB
MDDB	DMP like Hadoop, etc.
SAP Dataset	JSON Dataset
Storing Procedure	Doc Data Source
Program Data Source	Built-in Dataset

ORACLE SQL Server 2008 MySQL Access

*Multiple Data Source Integration

Make Reports

Excel-like Design	Dynamic Calculations between Cells
Parameter Visualization	Dashboard
Diverse Charts	Data Entry Setup

* Complex Report Design

Report Server(parse reports)

Deploy&Integrate

Independent Deployment	Embedded Deployment
Integrated Web Page	Service Integration

JBoss weblogic WebSphere

*Report Deployment and Integration

Report Features

Authorization	Task Schedule
Remote Modification	Data Entry
Real-time Analysis	Online Editing

Export EXL/WORD/PDF/TXT/XML

Bulk Print

*Report View and Use

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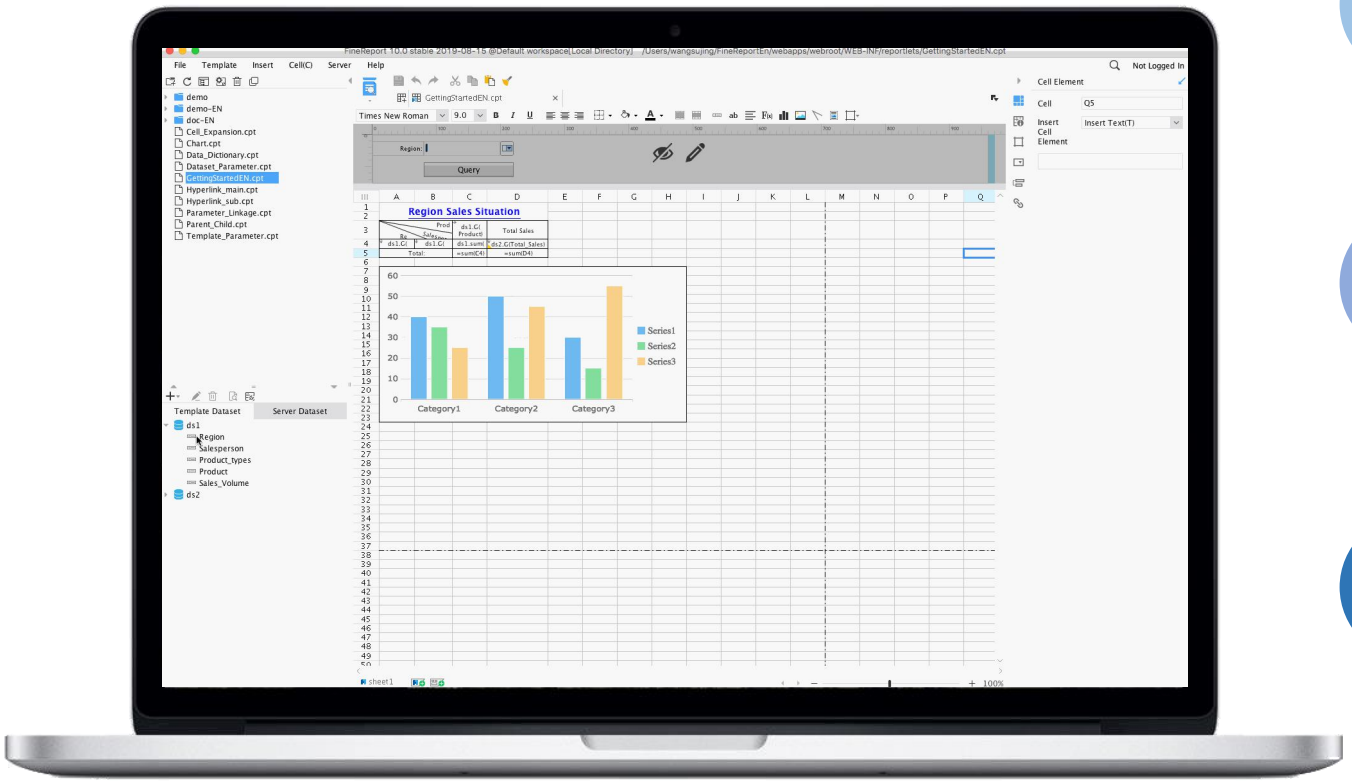
2.2 FR Designer Properties: Zero-Code, Drag & Drop Operations, as Simple as Excel

Drag and Drop Operations



1. Excel-like interface.
   Bind data columns to cells by dragging and dropping operation.

2. Unlimited expansion along rows and columns.
   Cross-sheet calculations are perfectly compatible with Excel formulas.

3. Support importing existing Excel sample reports, and retain the original formulas without distortion.

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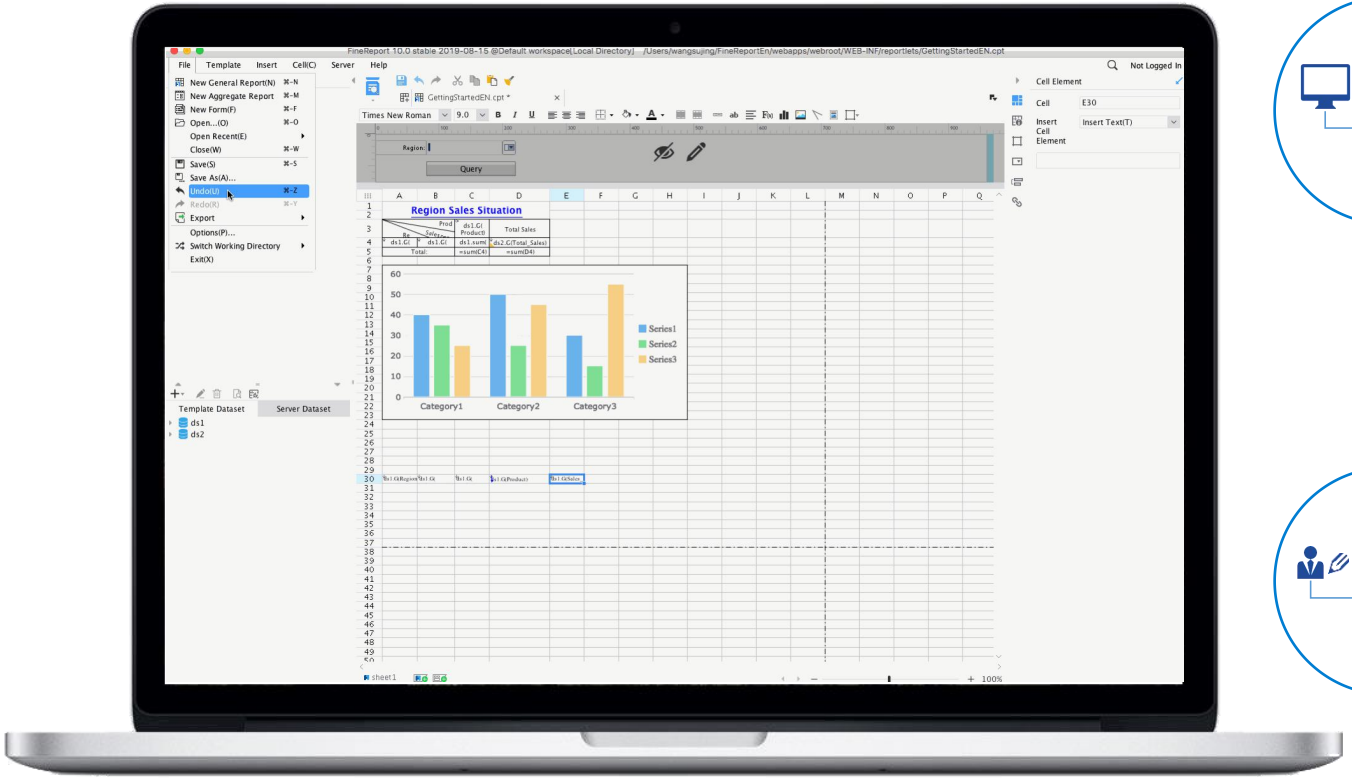
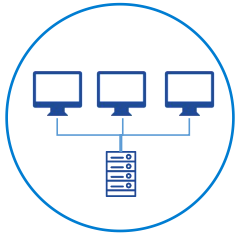
2.3 FR Designer Atrributes : Switching among Multiple Working Directories, Remote Design, Cooperative Tabulation

Configure Working Directory





Freely configure multiple working directories and switch between different projects.
Support connection to remote servers, local design, and remote publishing.

Support multiple people to develop the same set of reports at the same time.
Prevent editing conflicts via the template lock functionality.
Ensure data security by data permission control .

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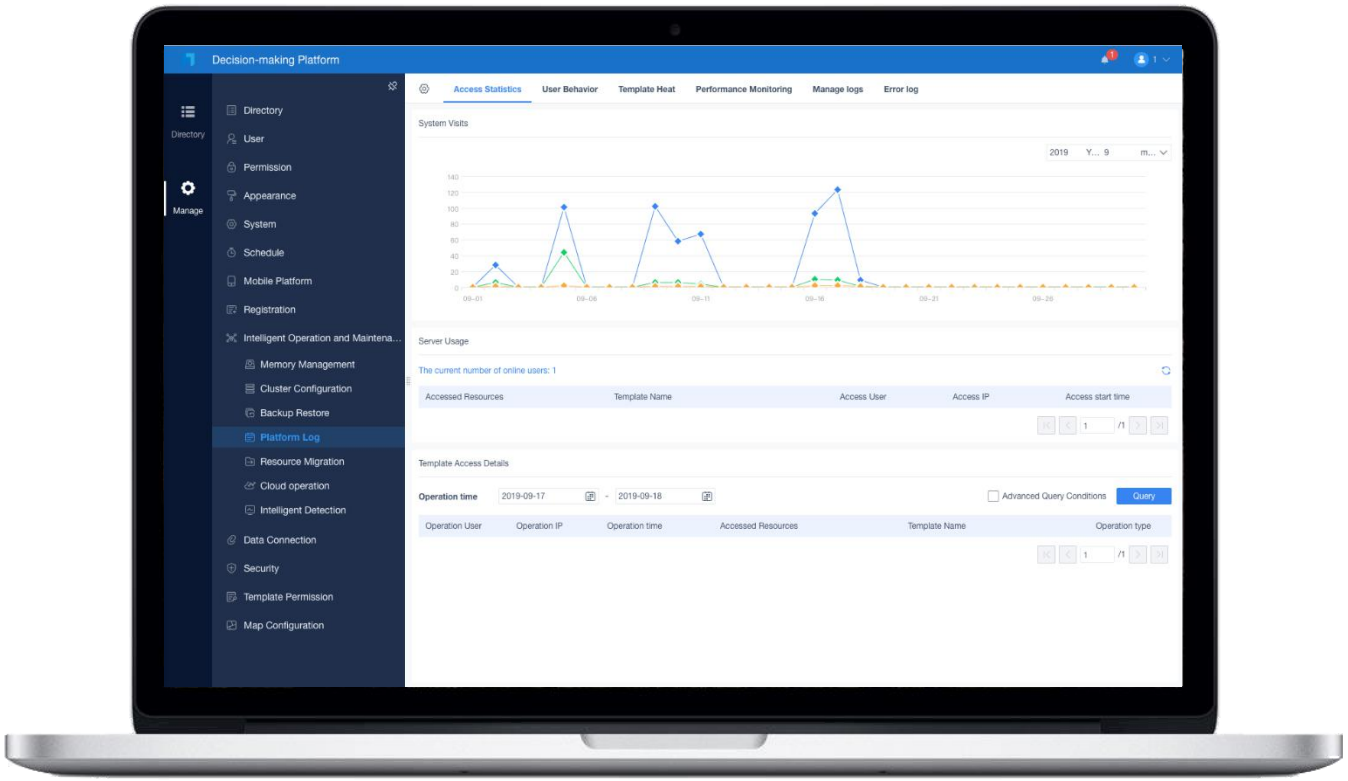
2.4 FR Designer Attributes : One-Click Update, Platform Log, Backup and Restore

Platform Log



1

Support online updates, no need to re-install FineReport.
One-click upgrade style to the latest version to meet the newest functionalities.

2

Support automatic backup before upgrading.
Support one-click restoration according to the backup node.

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Features of FR Left a Deep Impression on Users

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03

Reporting Functionalities

3.1 Provides 3 Kinds of Reports to Meet Complex Application Scenarios

	1	2	3
Report Type	General Report	Aggregation Report	Dashboard
Scenarios	Traditional complex report	Irregular large report	Data visualization on large screens
Design Mode	Cell merging, alignment and expansion.	Drag and drop to freely combine components.	Charts/layouts/parameters/ widgets, etc. Drag and drop components.
Advantages	Detail/group/cross/pagination/ combo tree report and other complex reports.	No need to align and merge grids to make complex tables. Cell expansion is independent from each other.	Responsive design. Components extend independently. Support adaptive and partial refresh and component linkage.

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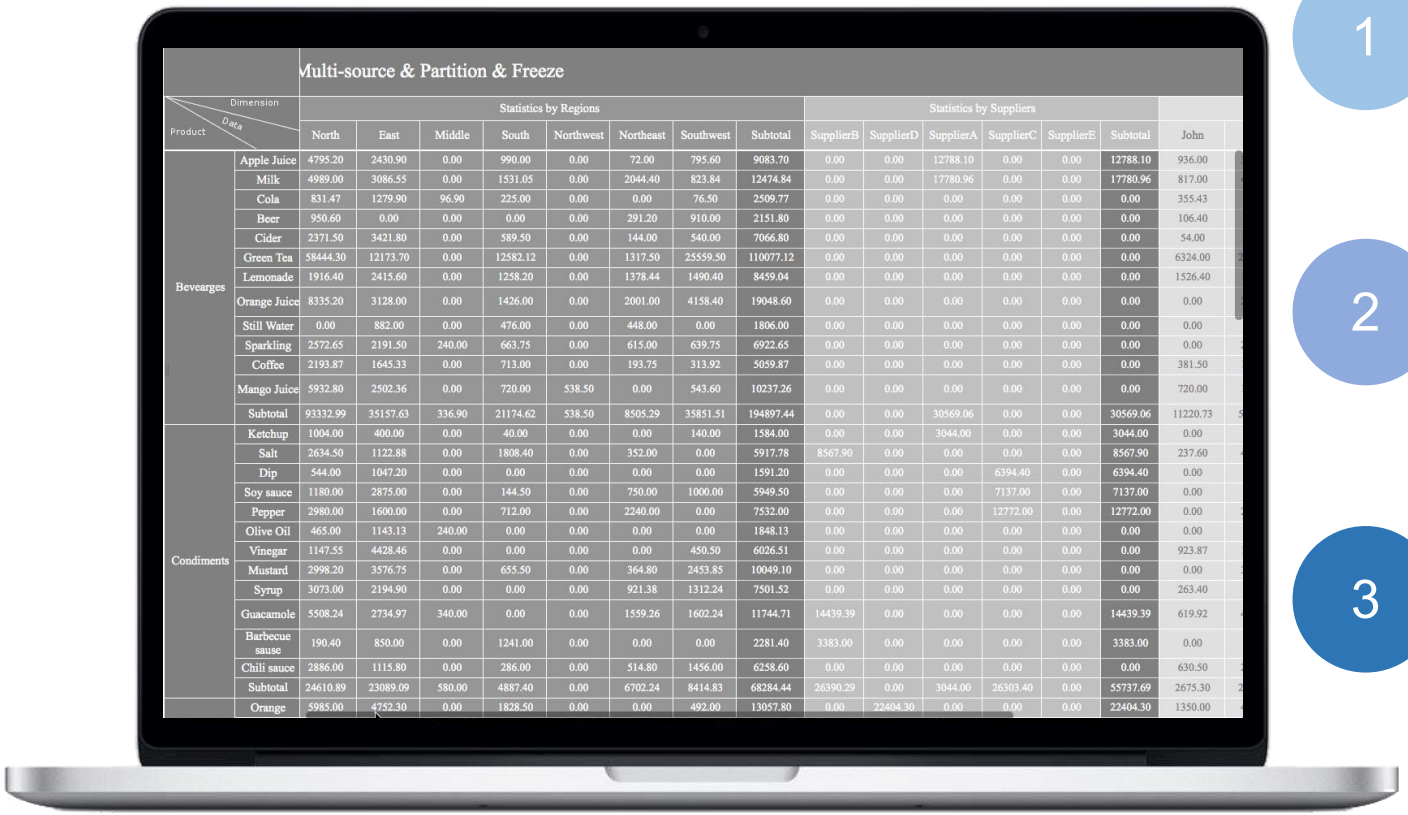
3.2 General Report: Pagination, Grouping Effects and Row/Column Split

Pagination Report



Multi-source & Partition & Freeze

Product \ Dimension / Data		Statistics by Regions								Statistics by Suppliers						
		North	East	Middle	South	Northwest	Northeast	Southwest	Subtotal	SupplierB	SupplierD	SupplierA	SupplierC	SupplierE	Subtotal	John
Bevearges	Apple Juice	4795.20	2430.90	0.00	990.00	0.00	72.00	795.60	9083.70	0.00	0.00	12788.10	0.00	0.00	12788.10	936.00
	Milk	4989.00	3086.55	0.00	1531.05	0.00	2044.40	823.84	12474.84	0.00	0.00	17780.96	0.00	0.00	17780.96	817.00
	Cola	831.47	1279.90	96.90	225.00	0.00	0.00	76.50	2509.77	0.00	0.00	0.00	0.00	0.00	0.00	355.43
	Beer	950.60	0.00	0.00	0.00	0.00	291.20	910.00	2151.80	0.00	0.00	0.00	0.00	0.00	0.00	106.40
	Cider	2371.50	3421.80	0.00	589.50	0.00	144.00	540.00	7066.80	0.00	0.00	0.00	0.00	0.00	0.00	54.00
	Green Tea	58444.30	12173.70	0.00	12582.12	0.00	1317.50	25559.50	110077.12	0.00	0.00	0.00	0.00	0.00	0.00	6324.00
	Lemonade	1916.40	2415.60	0.00	1258.20	0.00	1378.44	1490.40	8459.04	0.00	0.00	0.00	0.00	0.00	0.00	1526.40
	Orange Juice	8335.20	3128.00	0.00	1426.00	0.00	2001.00	4158.40	19048.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Still Water	0.00	882.00	0.00	476.00	0.00	448.00	0.00	1806.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Sparkling	2572.65	2191.50	240.00	663.75	0.00	615.00	639.75	6922.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Coffee	2193.87	1645.33	0.00	713.00	0.00	193.75	313.92	5059.87	0.00	0.00	0.00	0.00	0.00	0.00	381.50
	Mango Juice	5932.80	2502.36	0.00	720.00	538.50	0.00	543.60	10237.26	0.00	0.00	0.00	0.00	0.00	0.00	720.00
	Subtotal	93332.99	35157.63	336.90	21174.62	538.50	8505.29	35851.51	194897.44	0.00	0.00	30569.06	0.00	0.00	30569.06	11220.73
Condiments	Ketchup	1004.00	400.00	0.00	40.00	0.00	0.00	140.00	1584.00	0.00	0.00	3044.00	0.00	0.00	3044.00	0.00
	Salt	2634.50	1122.88	0.00	1808.40	0.00	352.00	0.00	5917.78	8567.90	0.00	0.00	0.00	0.00	8567.90	237.60
	Dip	544.00	1047.20	0.00	0.00	0.00	0.00	0.00	1591.20	0.00	0.00	0.00	6394.40	0.00	6394.40	0.00
	Soy sauce	1180.00	2875.00	0.00	144.50	0.00	750.00	1000.00	5949.50	0.00	0.00	0.00	7137.00	0.00	7137.00	0.00
	Pepper	2980.00	1600.00	0.00	712.00	0.00	2240.00	0.00	7532.00	0.00	0.00	0.00	12772.00	0.00	12772.00	0.00
	Olive Oil	465.00	1143.13	240.00	0.00	0.00	0.00	0.00	1848.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vinegar	1147.55	4428.46	0.00	0.00	0.00	0.00	450.50	6026.51	0.00	0.00	0.00	0.00	0.00	0.00	923.87
	Mustard	2998.20	3576.75	0.00	655.50	0.00	364.80	2453.85	10049.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Syrup	3073.00	2194.90	0.00	0.00	0.00	921.38	1312.24	7501.52	0.00	0.00	0.00	0.00	0.00	0.00	263.40
	Guacamole	5508.24	2734.97	340.00	0.00	0.00	1559.26	1602.24	11744.71	14439.39	0.00	0.00	0.00	0.00	14439.39	619.92
	Barbecue sause	190.40	850.00	0.00	1241.00	0.00	0.00	0.00	2281.40	3383.00	0.00	0.00	0.00	0.00	3383.00	0.00
	Chili sauce	2886.00	1115.80	0.00	286.00	0.00	514.80	1456.00	6258.60	0.00	0.00	0.00	0.00	0.00	0.00	630.50
	Subtotal	24610.89	23089.09	580.00	4887.40	0.00	6702.24	8414.83	68284.44	26390.29	0.00	3044.00	26303.40	0.00	55737.69	2675.30
	Orange	5985.00	4752.30	0.00	1828.50	0.00	0.00	492.00	13057.80	0.00	22404.30	0.00	0.00	0.00	22404.30	1350.00

1

Pagination:
Freeze header; repeat header or ending;
Aggregate in page; No-pagination preview;
Horizontal non-pagination and vertical pagination.

2

Grouping:
Custom formula for grouping;
Conditional grouping; Ordinary grouping;
Adjacent continuous grouping;
Organization recursive tree;

3

Row/Column split:
Row split; Column split; Card column split;
Duplicate headers;
Automatically fill-in blank rows.

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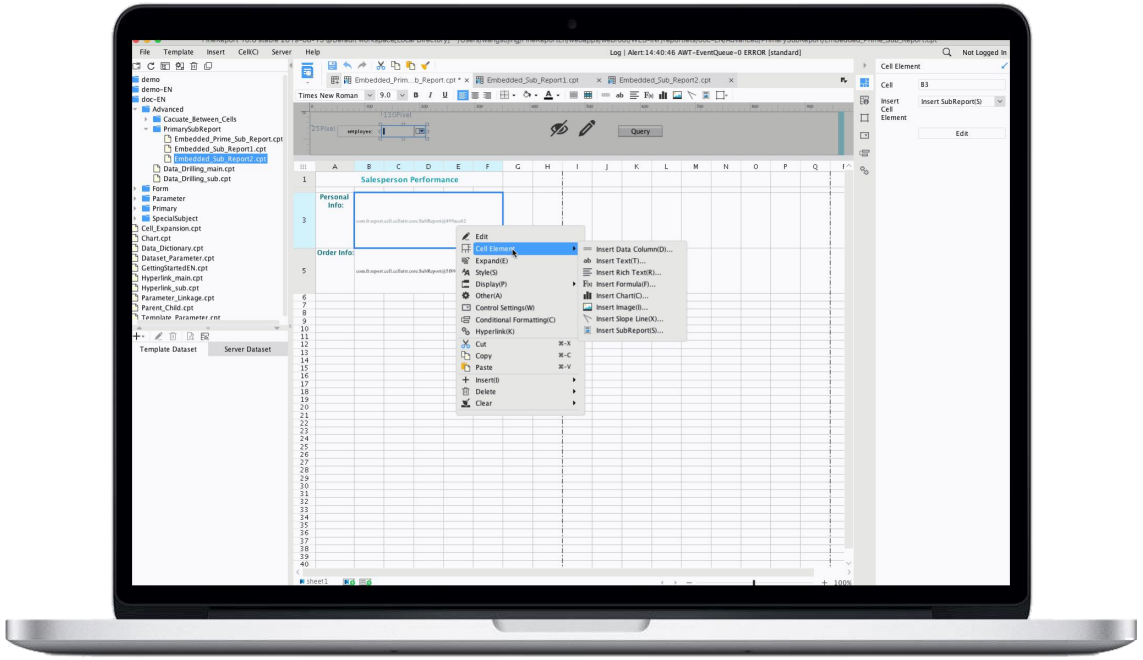
3.3 General Report: Support Various Personalized Report Types as well as Primary-sub Report and Tree Report

Primary-Sub Report



Applicable to reports containing multiple areas that display different content;
FineReport supports embedded and integrated primary-Sub report.

Tree Report

Receivables Summary in Jiangsu Area (Unit:1,000 CNY)

Company / Project / Form	Contracted Sales		Accounts Recievable			Product Cost (not expired)		Subtotal		Already lau	
	Number	Amount of money	Number	Contract payment	Receivable	Number	Amount of money	Number	Amount of money	Number	Amou
Nanjing area	320	255000	300	6000	300	200	4000	60	1200		
Wuxi area	1600	128000	300	6000	300	300	6000	20	400		
Suzhou area	1110	53260	500	10000	500	300	6000	80	1600	40	
Changzhou area	870	76150	600	12000	600	300	6000	100	2000	30	
Xuzhou area	1240	62180	100	2000	100	100	2000				
Total	5140	574590	1800	36000	1800	1200	24000	260	5200	70	

Suitable for displaying data with hierarchical relationships; for instance, data presentation relating to organizational structures can be realized using tree datasets.

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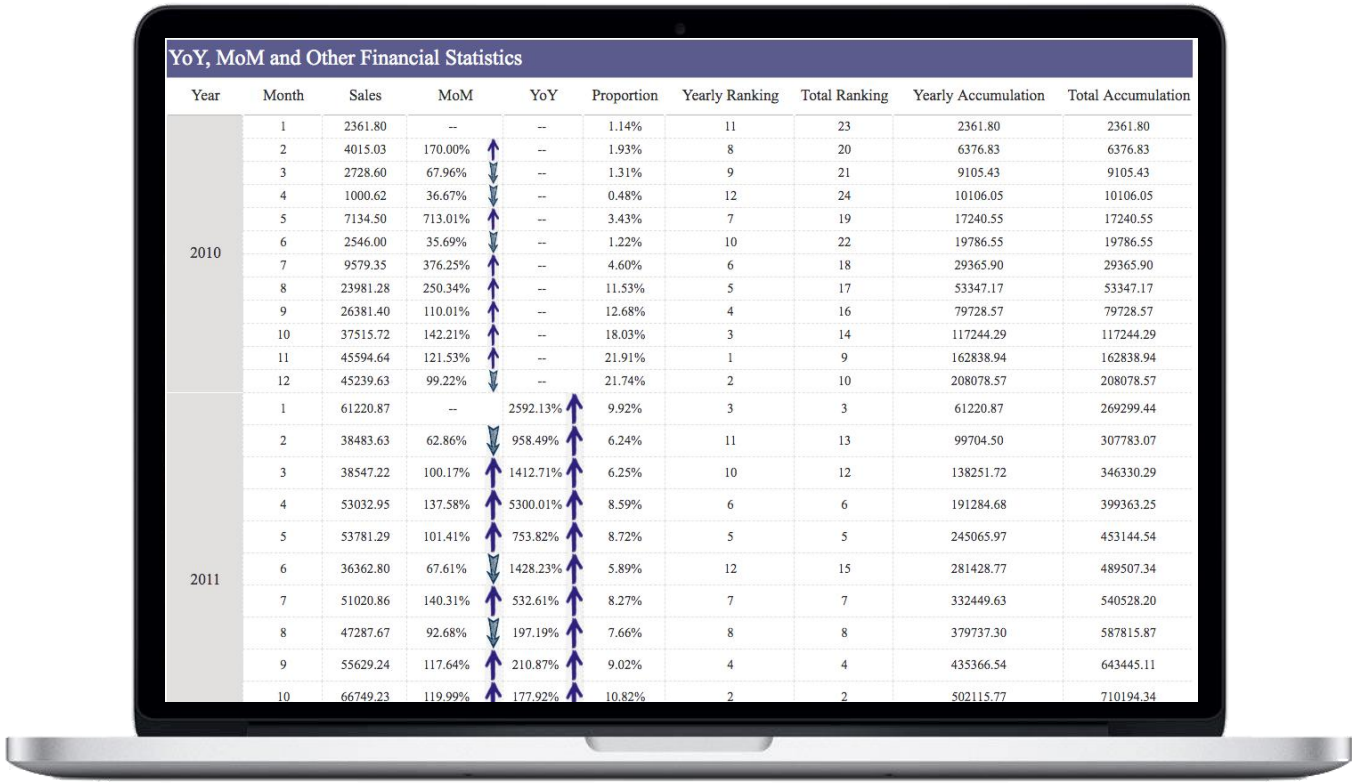
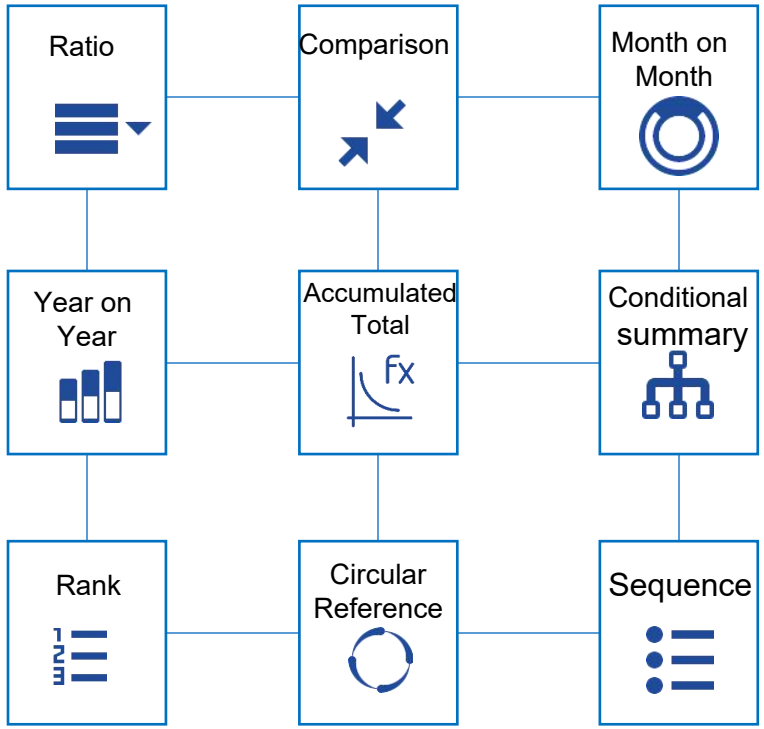
3.4 General Report: Dynamic Operations between Cells

YoY and MoM Calculation



Year	Month	Sales	MoM	YoY	Proportion	Yearly Ranking	Total Ranking	Yearly Accumulation	Total Accumulation
2010	1	2361.80	--	--	1.14%	11	23	2361.80	2361.80
	2	4015.03	170.00%	--	1.93%	8	20	6376.83	6376.83
	3	2728.60	67.96%	--	1.31%	9	21	9105.43	9105.43
	4	1000.62	36.67%	--	0.48%	12	24	10106.05	10106.05
	5	7134.50	713.01%	--	3.43%	7	19	17240.55	17240.55
	6	2546.00	35.69%	--	1.22%	10	22	19786.55	19786.55
	7	9579.35	376.25%	--	4.60%	6	18	29365.90	29365.90
	8	23981.28	250.34%	--	11.53%	5	17	53347.17	53347.17
	9	26381.40	110.01%	--	12.68%	4	16	79728.57	79728.57
	10	37515.72	142.21%	--	18.03%	3	14	117244.29	117244.29
	11	45594.64	121.53%	--	21.91%	1	9	162838.94	162838.94
	12	45239.63	99.22%	--	21.74%	2	10	208078.57	208078.57
2011	1	61220.87	--	2592.13%	9.92%	3	3	61220.87	269299.44
	2	38483.63	62.86%	958.49%	6.24%	11	13	99704.50	307783.07
	3	38547.22	100.17%	1412.71%	6.25%	10	12	138251.72	346330.29
	4	53032.95	137.58%	5300.01%	8.59%	6	6	191284.68	399363.25
	5	53781.29	101.41%	753.82%	8.72%	5	5	245065.97	453144.54
	6	36362.80	67.61%	1428.23%	5.89%	12	15	281428.77	489507.34
	7	51020.86	140.31%	532.61%	8.27%	7	7	332449.63	540528.20
	8	47287.67	92.68%	197.19%	7.66%	8	8	379737.30	587815.87
	9	55629.24	117.64%	210.87%	9.02%	4	4	435366.54	643445.11
	10	66749.23	119.99%	177.92%	10.82%	2	2	502115.77	710194.34

*Positioning and referencing the expanded cells to realize operations between cells.



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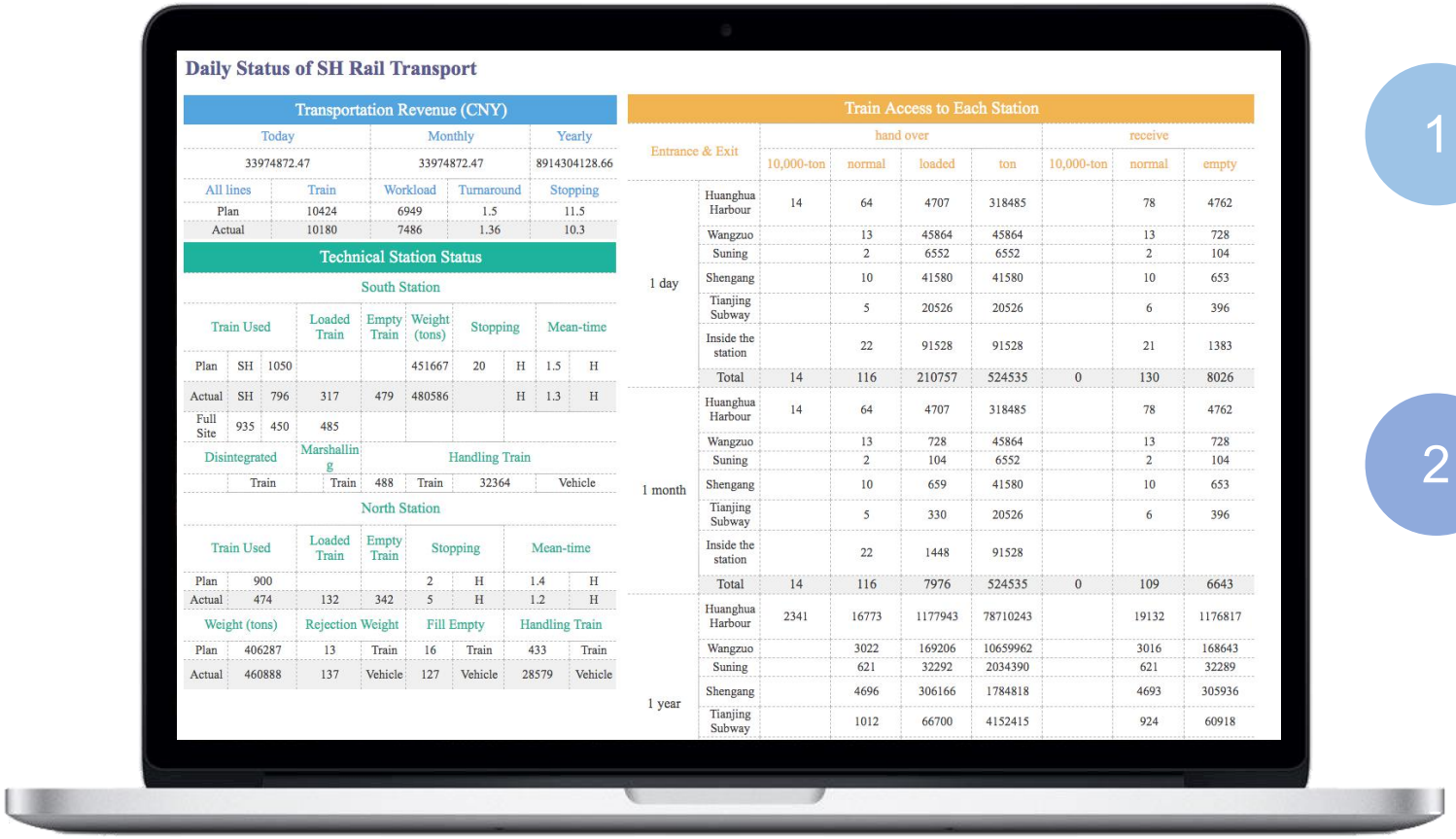
3.5 Aggregation Report: Free Splicing Aggregation Blocks, Eliminating the Need of Frequently Merge/Split Cells

Aggregation Report



Daily Status of SH Rail Transport

Transportation Revenue (CNY)

Today	Monthly	Yearly
33974872.47	33974872.47	8914304128.66

	All lines	Train	Workload	Turnaround	Stopping
Plan		10424	6949	1.5	11.5
Actual		10180	7486	1.36	10.3

Technical Station Status

South Station

	Train Used		Loaded Train	Empty Train	Weight (tons)	Stopping		Mean-time	
Plan	SH	1050			451667	20	H	1.5	H
Actual	SH	796	317	479	480586		H	1.3	H
Full Site	935	450	485						

Disintegrated		Marshalling	Handling Train			
Train		Train	488	Train	32364	Vehicle

North Station

	Train Used		Loaded Train	Empty Train	Stopping		Mean-time	
Plan	900				2	H	1.4	H
Actual	474		132	342	5	H	1.2	H

	Weight (tons)		Rejection Weight		Fill Empty		Handling Train	
Plan	406287	13	Train	16	Train	433	Train	
Actual	460888	137	Vehicle	127	Vehicle	28579	Vehicle	

Train Access to Each Station

	Entrance & Exit	hand over				receive		
		10,000-ton	normal	loaded	ton	10,000-ton	normal	empty
1 day	Huanghua Harbour	14	64	4707	318485		78	4762
	Wangzuo		13	45864	45864		13	728
	Suning		2	6552	6552		2	104
	Shengang		10	41580	41580		10	653
	Tianjing Subway		5	20526	20526		6	396
	Inside the station		22	91528	91528		21	1383
	Total	14	116	210757	524535	0	130	8026
1 month	Huanghua Harbour	14	64	4707	318485		78	4762
	Wangzuo		13	728	45864		13	728
	Suning		2	104	6552		2	104
	Shengang		10	659	41580		10	653
	Tianjing Subway		5	330	20526		6	396
	Inside the station		22	1448	91528			
	Total	14	116	7976	524535	0	109	6643
1 year	Huanghua Harbour	2341	16773	1177943	78710243		19132	1176817
	Wangzuo		3022	169206	10659962		3016	168643
	Suning		621	32292	2034390		621	32289
	Shengang		4696	306166	1784818		4693	305936
	Tianjing Subway		1012	66700	4152415		924	60918

1. Modules (aggregation blocks) are independent from each other, and enable users to drag, drop and splice.

2. Cell expansion and separation in one module does not affect the operations in other modules.

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3.6 Dashboard: Canvas Interface & Component Drag-and-Drop Operations

Dashboard

1

Canvas interface;
Component drag-and-drop operations;
Support within-component refresh (partial refresh), component hiding, and component stacking,
Components expand independently.

2

Multiple layout methods:
Adaptive layout, absolute layout, and tab layout.
Support cross-tab.

3

Provide a variety of components including
charts, widgets, tables, etc.
Different components can correspond to different topics and be bound to different data sources.
Realize a multi-dimensional analytical management dashboard.

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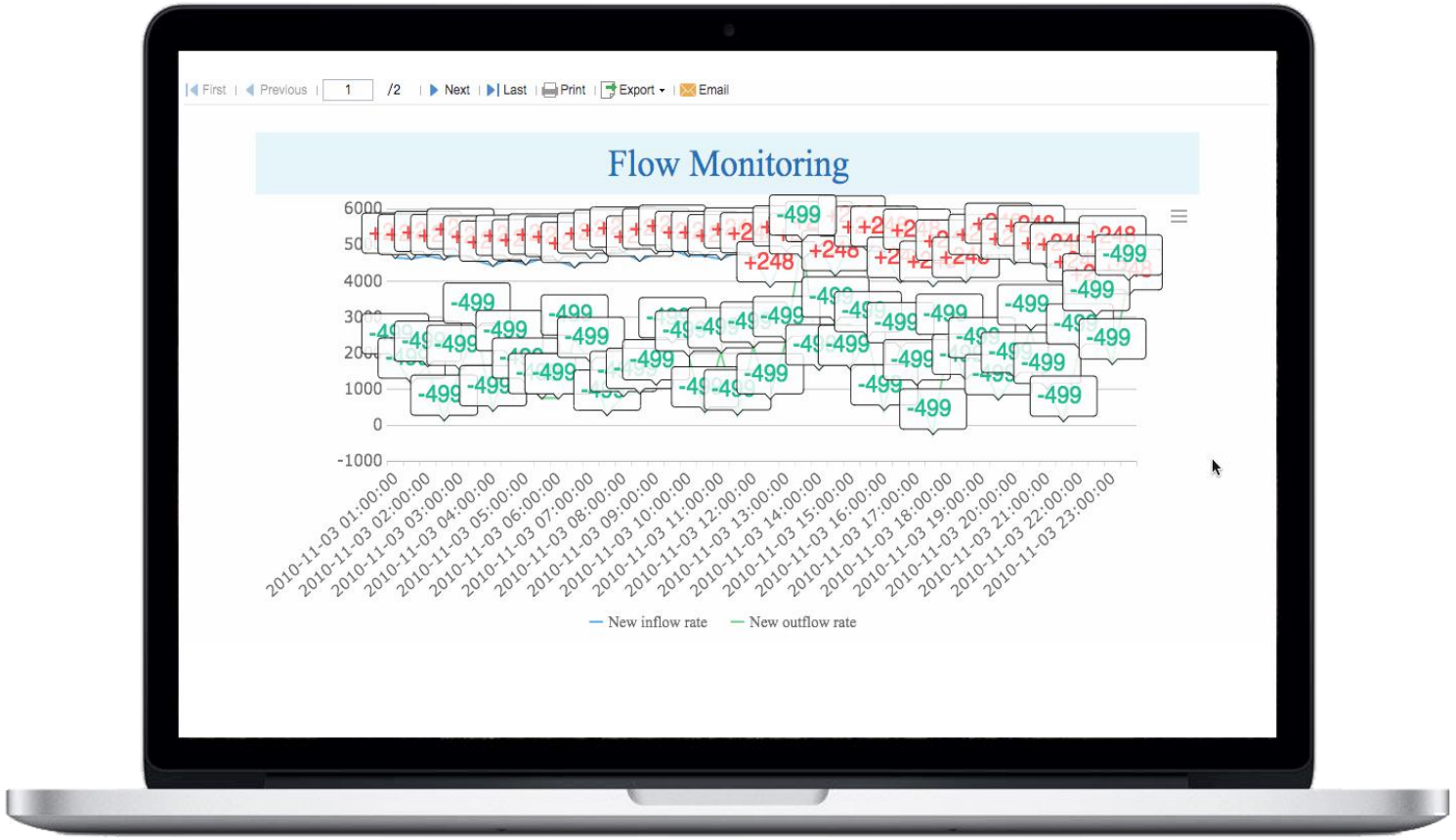
3.7 Dashboard: Real-Time Data Monitoring

Real-time Monitoring



1

Real-time Monitoring:
Data in the back-end is intelligently monitored and compared.
The front-end is updated in time when data change in the back-end, keeping synchronous with the latest data.

2

Local Refresh:
Dashboard supports partial refresh of individual components, so each component has independent monitoring settings.

3

Dynamic Prompt:
The chart supports dynamic prompting of updated data when refreshing, such as pop-up the changed values.

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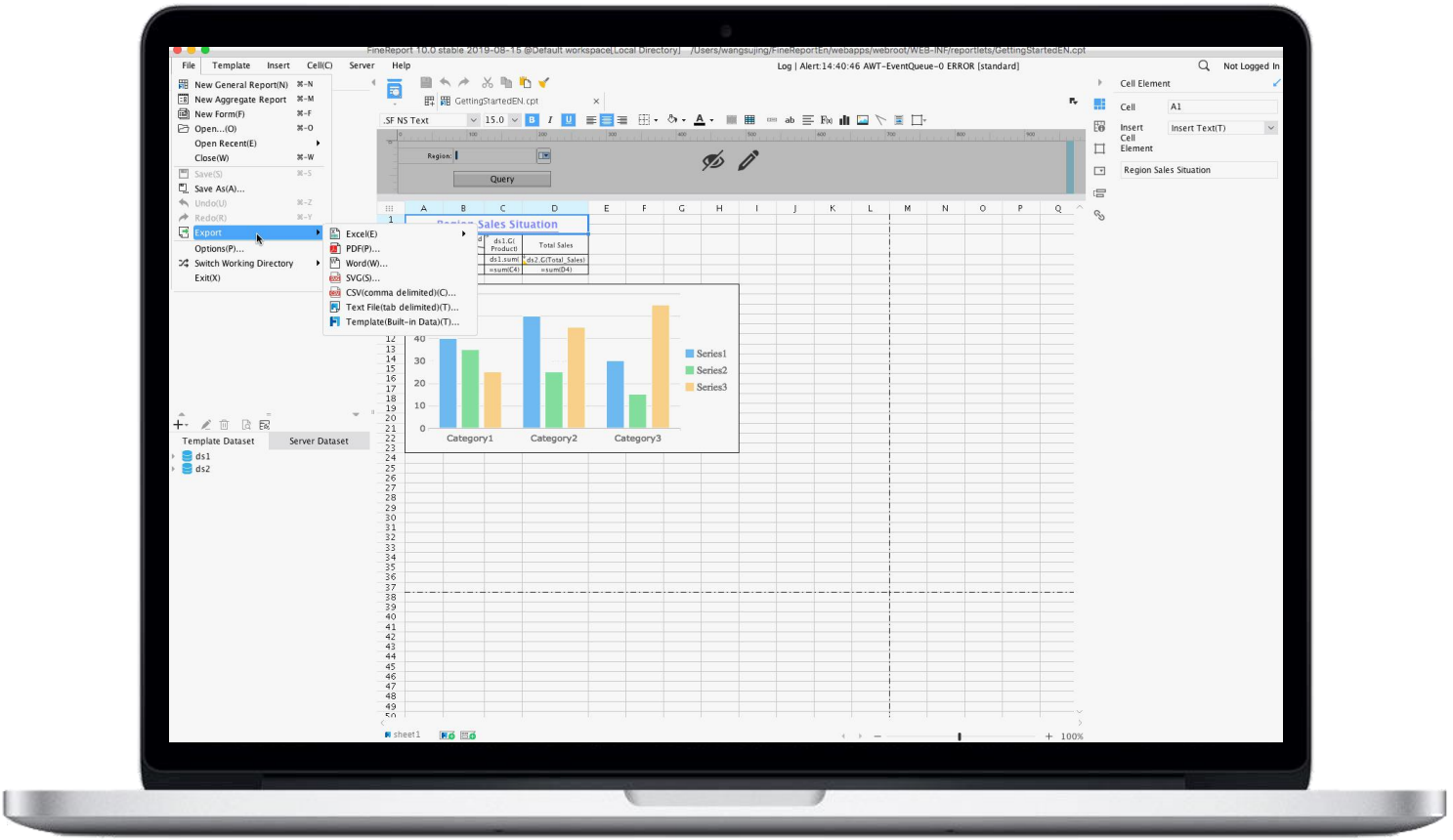
3.8 Report Export: Multiple Export Options, Perfect Export from Designer & Browser

Export Settings



Export Types:

Features:

- Hide & Encrypt
- Custom Button
- Export URL

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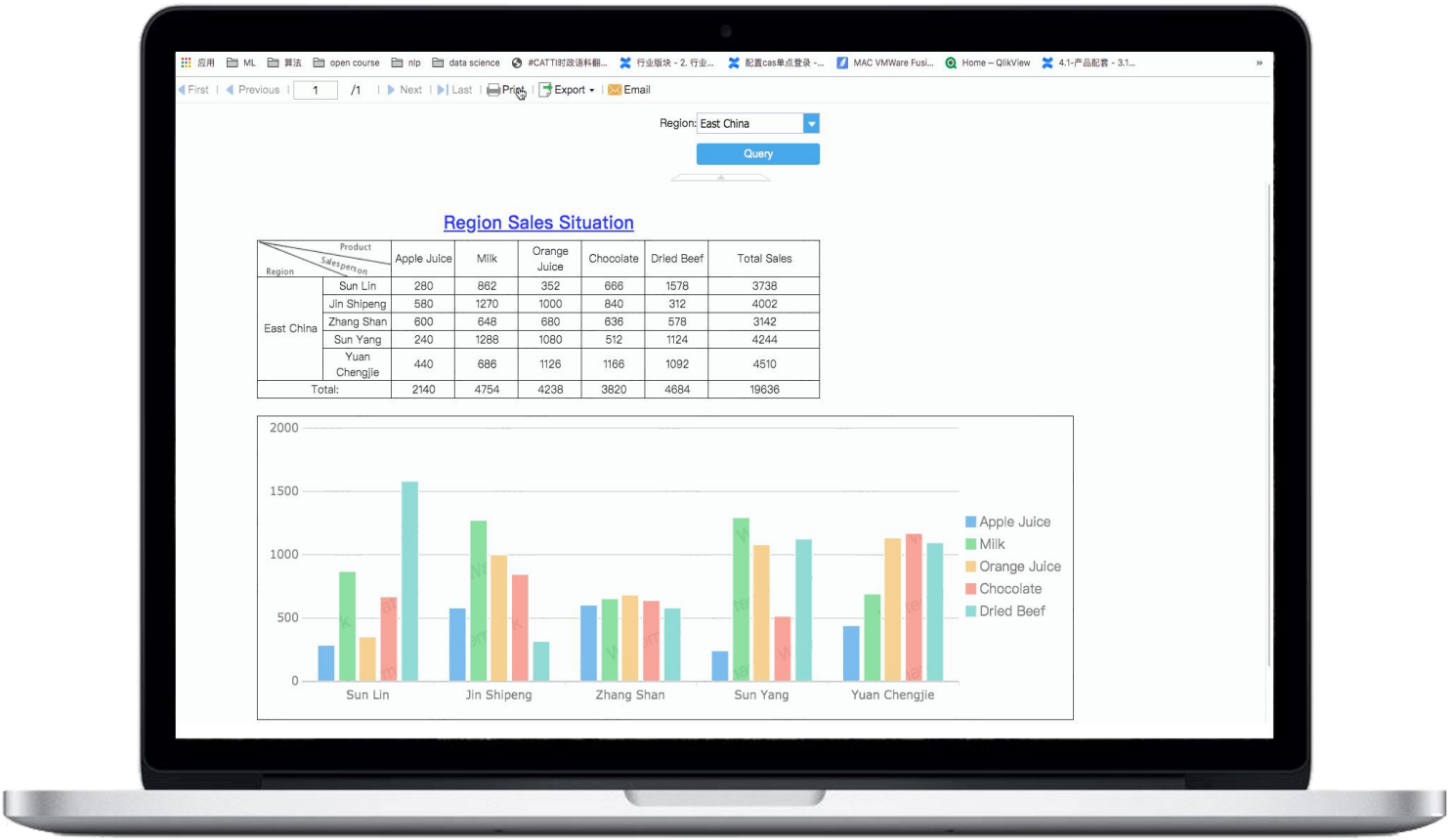
3.9 Report Printing: Multiple Print Options to Meet Daily Business Needs

Print Settings



Print Types:

Zero-client print

Local software print

Features:

- Silent Print
- Print Offset
- Bulk Print

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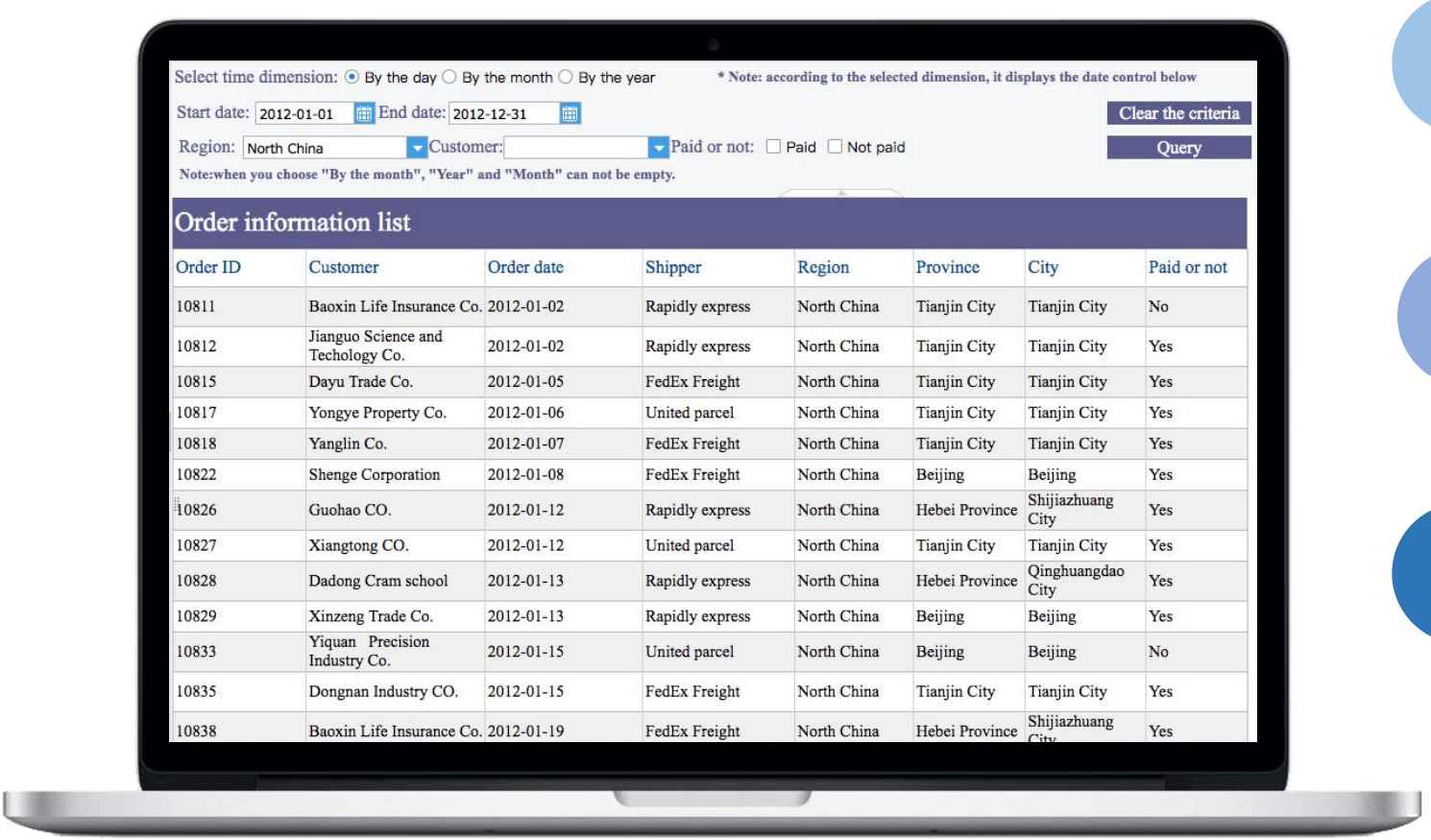
04

Query & Filter

4.1 Powerful Parameter Setting Interface for Customizing Query Conditions

Parameter Interface



1. One of the best design parameter interface in BI industry. Drag-and-drop widgets, and free-layout query interfaces.

2. Provides more than 10 kinds of widgets such as text, drop-down tree, drop-down checkbox, time, date and drop-down box.

3. Binding widgets with parameters to control and filter report contents and styles.

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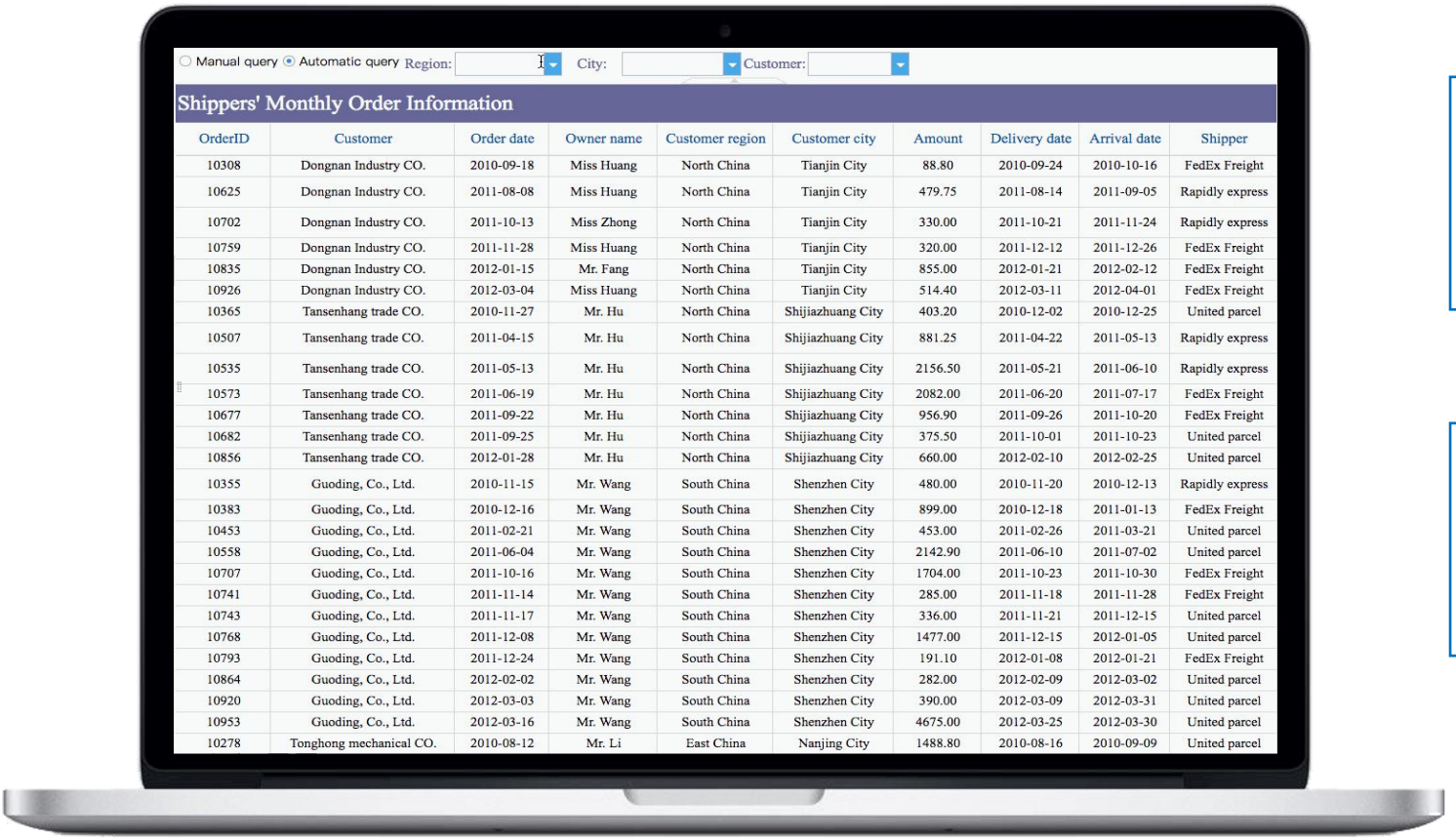
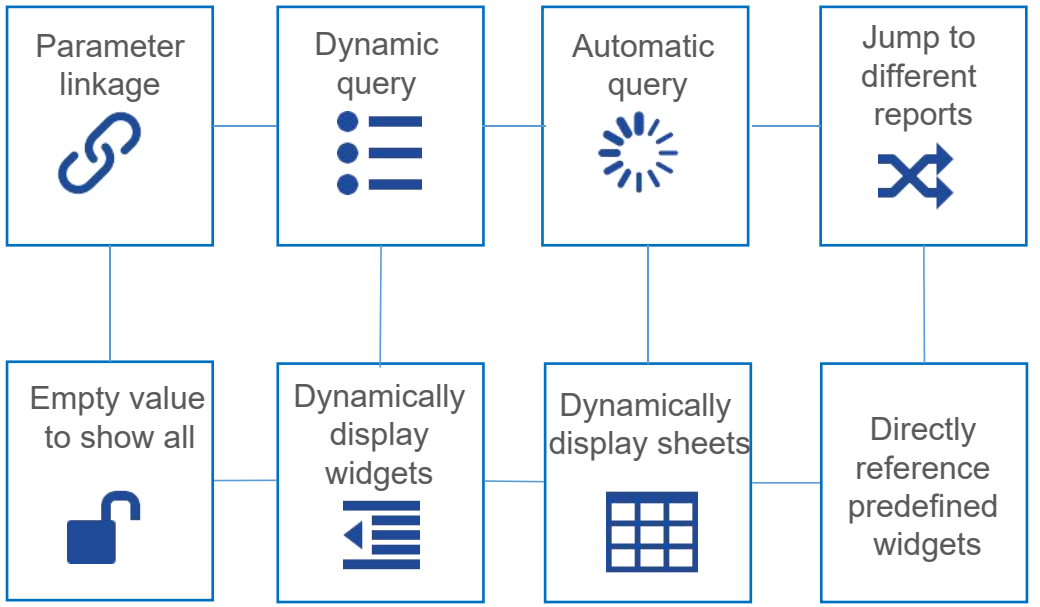
4.2 Provide a Variety of Custom Settings to Achieve Advanced Filtering and Query

Advanced Parameter Query



OrderID	Customer	Order date	Owner name	Customer region	Customer city	Amount	Delivery date	Arrival date	Shipper
10308	Dongnan Industry CO.	2010-09-18	Miss Huang	North China	Tianjin City	88.80	2010-09-24	2010-10-16	FedEx Freight
10625	Dongnan Industry CO.	2011-08-08	Miss Huang	North China	Tianjin City	479.75	2011-08-14	2011-09-05	Rapidly express
10702	Dongnan Industry CO.	2011-10-13	Miss Zhong	North China	Tianjin City	330.00	2011-10-21	2011-11-24	Rapidly express
10759	Dongnan Industry CO.	2011-11-28	Miss Huang	North China	Tianjin City	320.00	2011-12-12	2011-12-26	FedEx Freight
10835	Dongnan Industry CO.	2012-01-15	Mr. Fang	North China	Tianjin City	855.00	2012-01-21	2012-02-12	FedEx Freight
10926	Dongnan Industry CO.	2012-03-04	Miss Huang	North China	Tianjin City	514.40	2012-03-11	2012-04-01	FedEx Freight
10365	Tansenhang trade CO.	2010-11-27	Mr. Hu	North China	Shijiazhuang City	403.20	2010-12-02	2010-12-25	United parcel
10507	Tansenhang trade CO.	2011-04-15	Mr. Hu	North China	Shijiazhuang City	881.25	2011-04-22	2011-05-13	Rapidly express
10535	Tansenhang trade CO.	2011-05-13	Mr. Hu	North China	Shijiazhuang City	2156.50	2011-05-21	2011-06-10	Rapidly express
10573	Tansenhang trade CO.	2011-06-19	Mr. Hu	North China	Shijiazhuang City	2082.00	2011-06-20	2011-07-17	FedEx Freight
10677	Tansenhang trade CO.	2011-09-22	Mr. Hu	North China	Shijiazhuang City	956.90	2011-09-26	2011-10-20	FedEx Freight
10682	Tansenhang trade CO.	2011-09-25	Mr. Hu	North China	Shijiazhuang City	375.50	2011-10-01	2011-10-23	United parcel
10856	Tansenhang trade CO.	2012-01-28	Mr. Hu	North China	Shijiazhuang City	660.00	2012-02-10	2012-02-25	United parcel
10355	Guoding, Co., Ltd.	2010-11-15	Mr. Wang	South China	Shenzhen City	480.00	2010-11-20	2010-12-13	Rapidly express
10383	Guoding, Co., Ltd.	2010-12-16	Mr. Wang	South China	Shenzhen City	899.00	2010-12-18	2011-01-13	FedEx Freight
10453	Guoding, Co., Ltd.	2011-02-21	Mr. Wang	South China	Shenzhen City	453.00	2011-02-26	2011-03-21	United parcel
10558	Guoding, Co., Ltd.	2011-06-04	Mr. Wang	South China	Shenzhen City	2142.90	2011-06-10	2011-07-02	United parcel
10707	Guoding, Co., Ltd.	2011-10-16	Mr. Wang	South China	Shenzhen City	1704.00	2011-10-23	2011-10-30	FedEx Freight
10741	Guoding, Co., Ltd.	2011-11-14	Mr. Wang	South China	Shenzhen City	285.00	2011-11-18	2011-11-28	FedEx Freight
10743	Guoding, Co., Ltd.	2011-11-17	Mr. Wang	South China	Shenzhen City	336.00	2011-11-21	2011-12-15	United parcel
10768	Guoding, Co., Ltd.	2011-12-08	Mr. Wang	South China	Shenzhen City	1477.00	2011-12-15	2012-01-05	United parcel
10793	Guoding, Co., Ltd.	2011-12-24	Mr. Wang	South China	Shenzhen City	191.10	2012-01-08	2012-01-21	FedEx Freight
10864	Guoding, Co., Ltd.	2012-02-02	Mr. Wang	South China	Shenzhen City	282.00	2012-02-09	2012-03-02	United parcel
10920	Guoding, Co., Ltd.	2012-03-03	Mr. Wang	South China	Shenzhen City	390.00	2012-03-09	2012-03-31	United parcel
10953	Guoding, Co., Ltd.	2012-03-16	Mr. Wang	South China	Shenzhen City	4675.00	2012-03-25	2012-03-30	United parcel
10278	Tonghong mechanical CO.	2010-08-12	Mr. Li	East China	Nanjing City	1488.80	2010-08-16	2010-09-09	United parcel



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4.3 Parameter Passing to Easily Perform Linkage and Drilling among Reports and Components

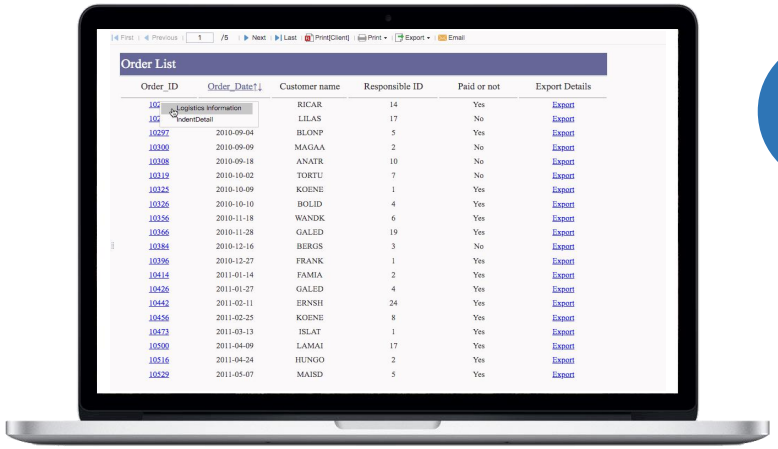
Linkage

1. Support linkage analysis between diagrams and diagrams, diagrams and tables, and tables and tables.

Multi-dimensional Analysis

2. Support drilling between different types of charts; Support drilling to unlimited layers or dimensions.

Multi-dimensional Drilling



3. Support tab switching, multi-dimensional analysis, and multi-dimensional data observation.

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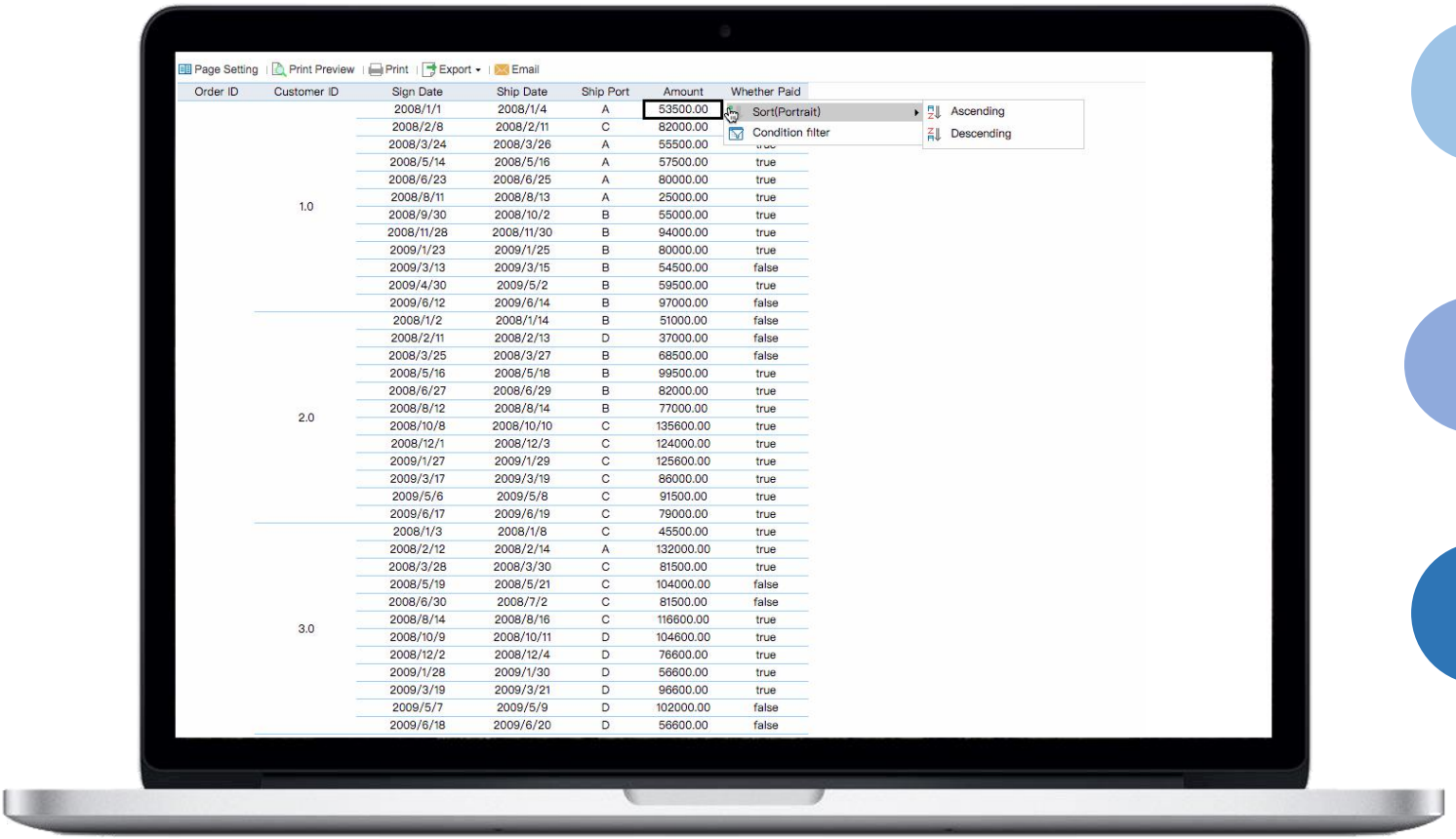
4.4 Secondary Analysis: Real-time Data Analysis after Regular Parameter Query

Secondary data filtering and sorting



1. Usually, after using common parameters to query the result report, the data of the current page can no longer be used for in-depth analysis.

2. FineReport provides page-level real-time data analysis to solve the above problems.

3. Support sorting, conditional filtering, and list filtering.

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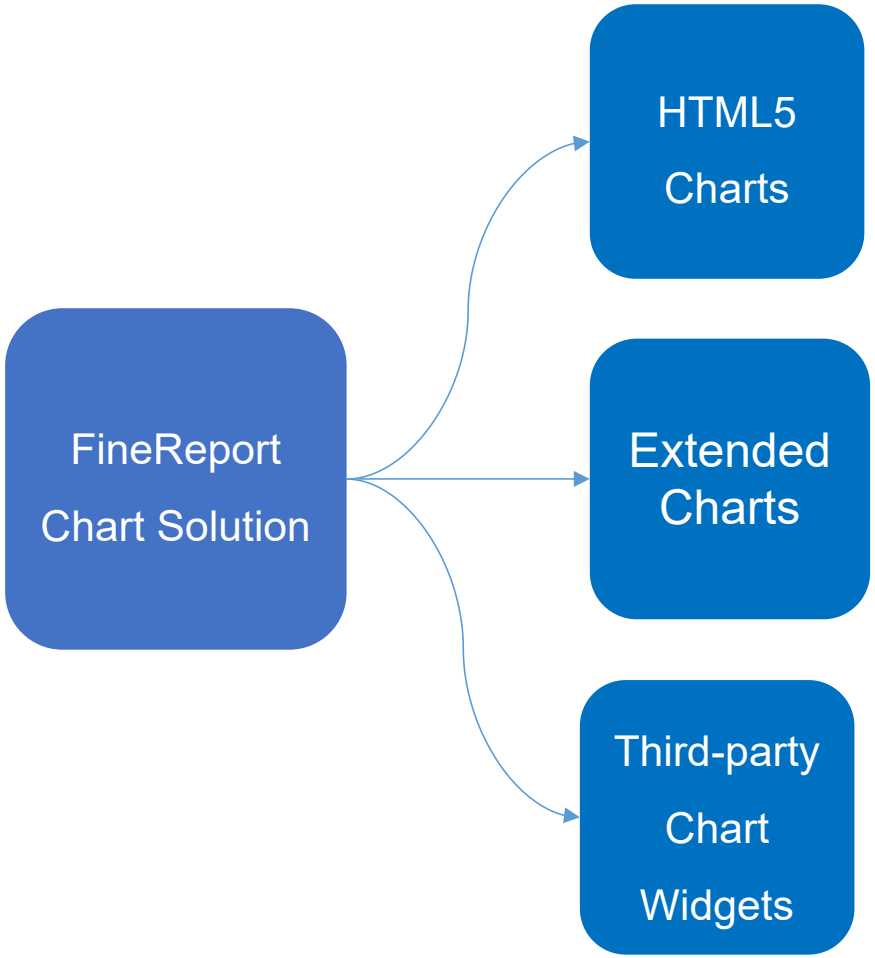
05

Charts

5.1 FineReport Chart Solution: Self-developed, Open Interface



Independent development of HTML5 charts, along with excellent dynamic effects and powerful interactive experience;
Providing powerful personalized settings, and can be displayed in a variety of terminal devices.

Novel charts developed based on WebGL. The cool dynamic effects can meet the display and playback needs under special scenarios such as large screens.

Provide a complete interface. Users can introduce third-party chart widgets such as ECharts.

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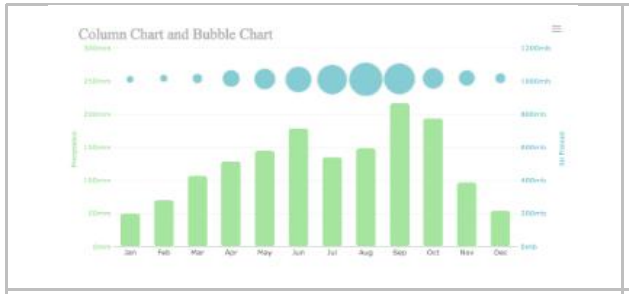
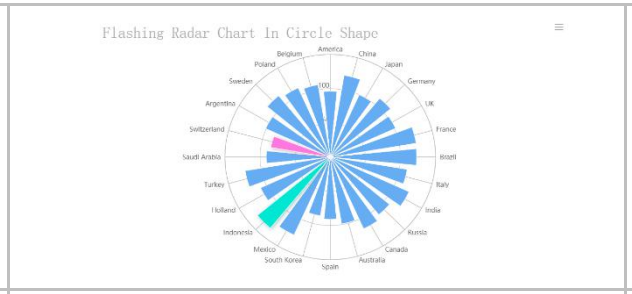
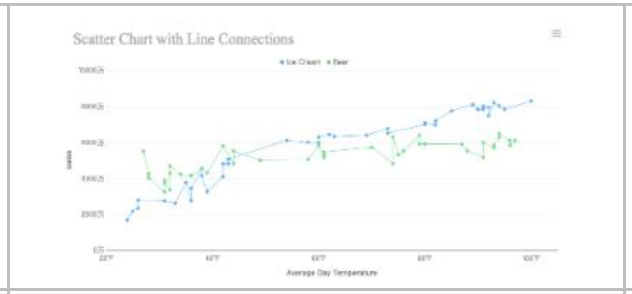
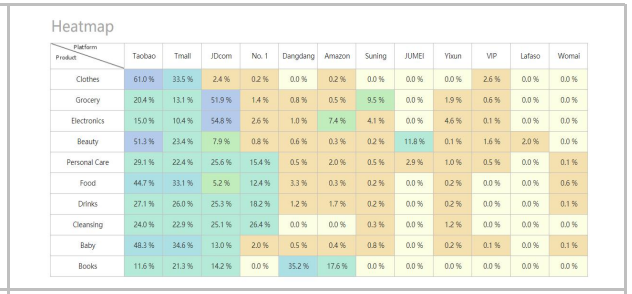
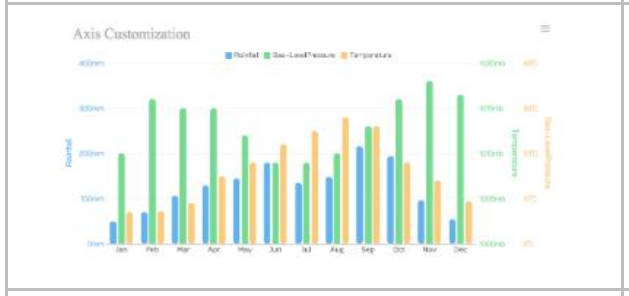
5.2 Self-developed HTML5 Charts to Satisfy Reading Preferences of Different Groups

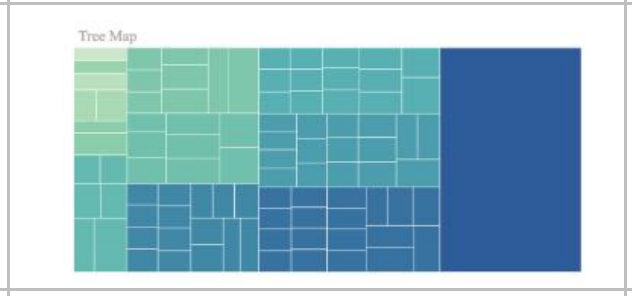


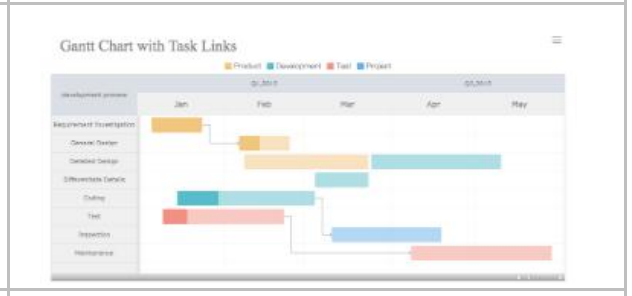


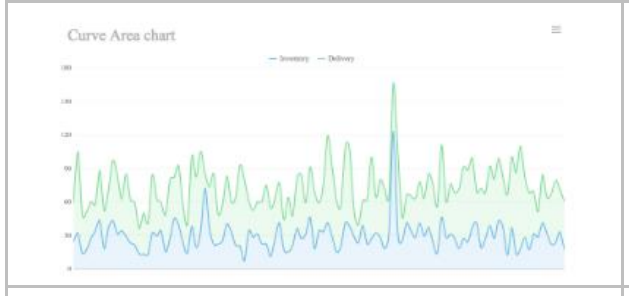


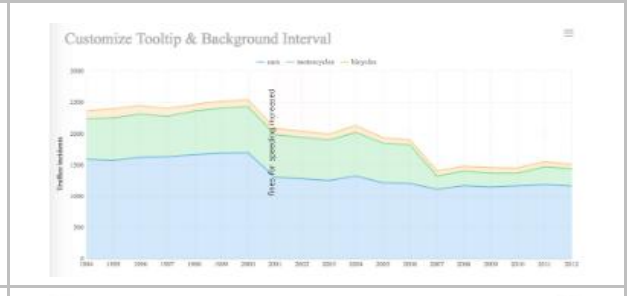


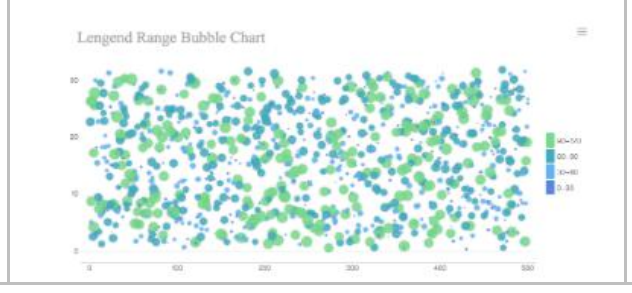


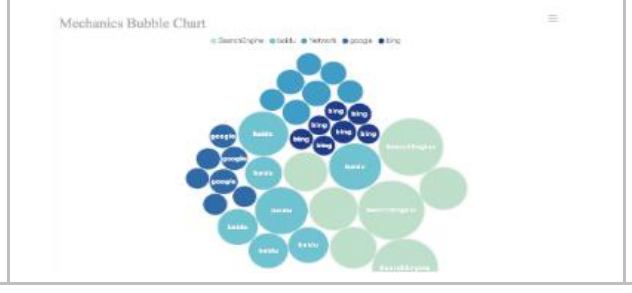


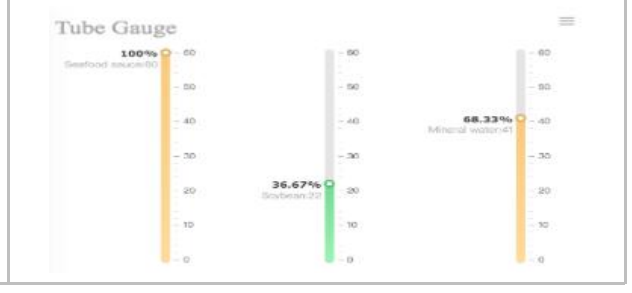












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5.3 Multiple Data Map Types: Combination Map / Custom Map

Combination Map

1. Support freely combining point maps and area maps to present data
2. Support bubble chart, pie chart, scatter, locator, etc. to combine with area map

Custom Map

1. Support importing images and outlining custom maps
2. Support direct interaction with partitioned images through data point hints

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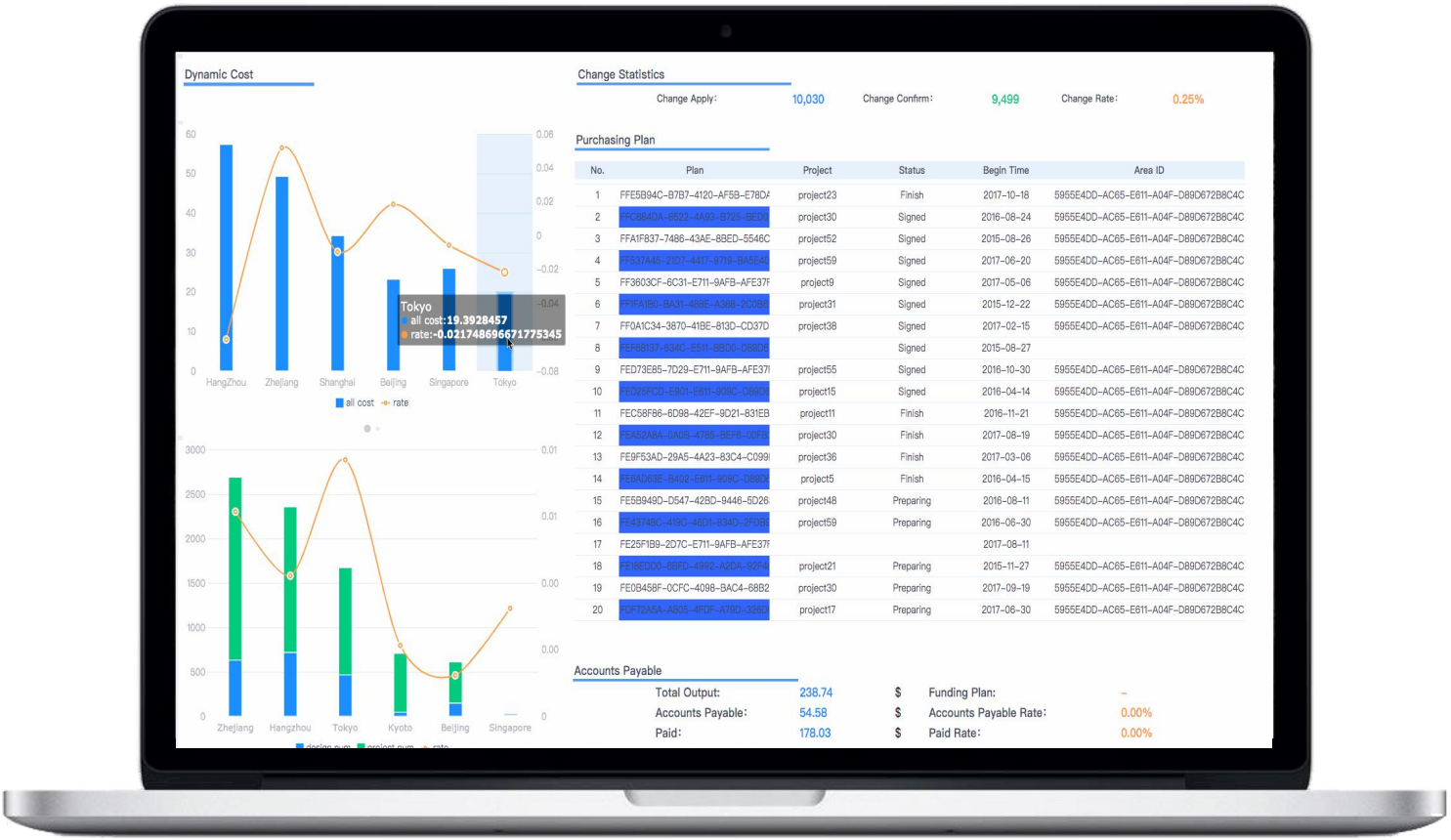
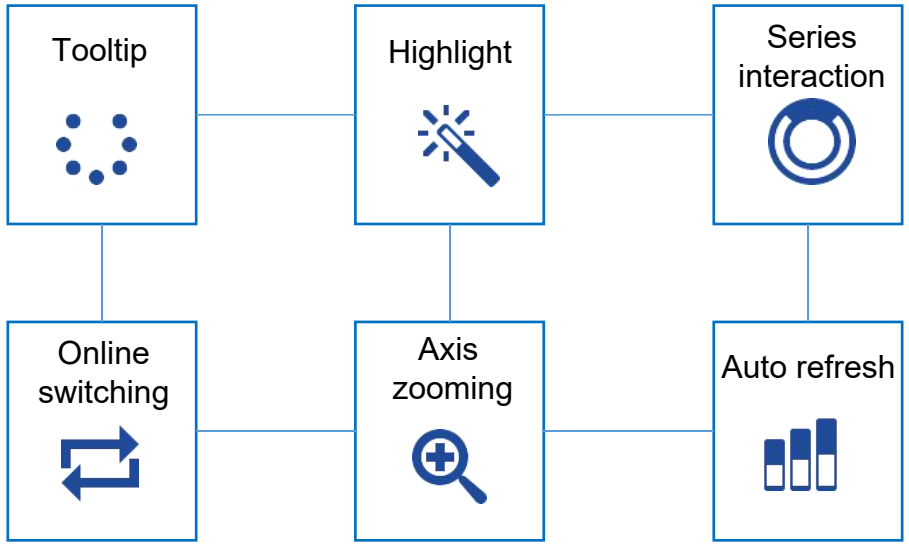
5.4 Chart Interaction: Rich Interactive Effects and Powerful Visual Experience

Dynamic Interaction





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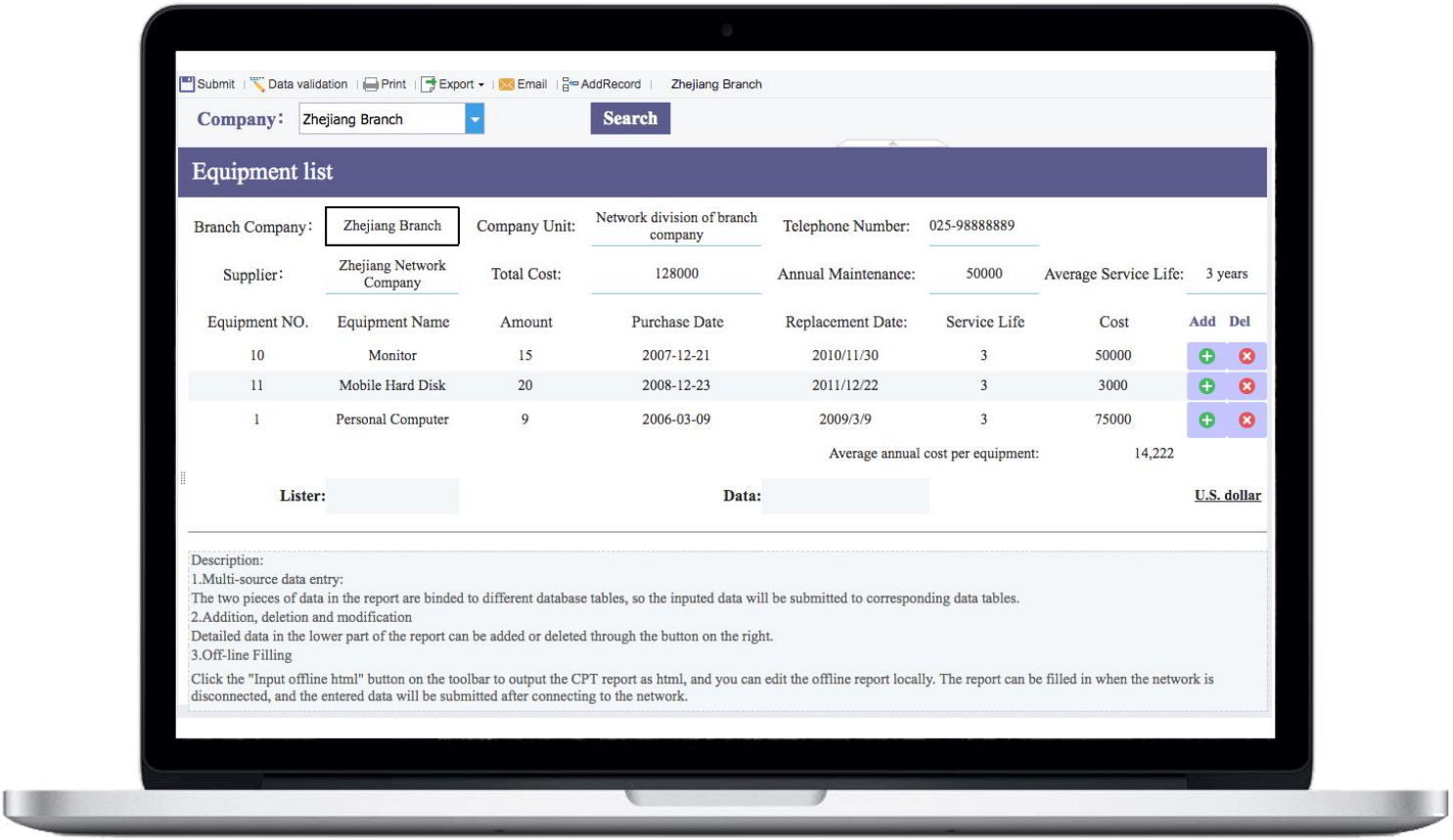
06

Data Entry

6.1 Editing Style: Rich Widget Types

Data Entry Form



16 types of widgets

- Text
- Number
- Drop-down box
- View Tree
- Drop-down Checkbox
- Radio Button Group
- Date
- Buttons
- Checkbox
- Web Box
- Checkbox Group
- File
- Password
- Drop-down Tree
- Table Tree
- List
- Predefined
- Custom

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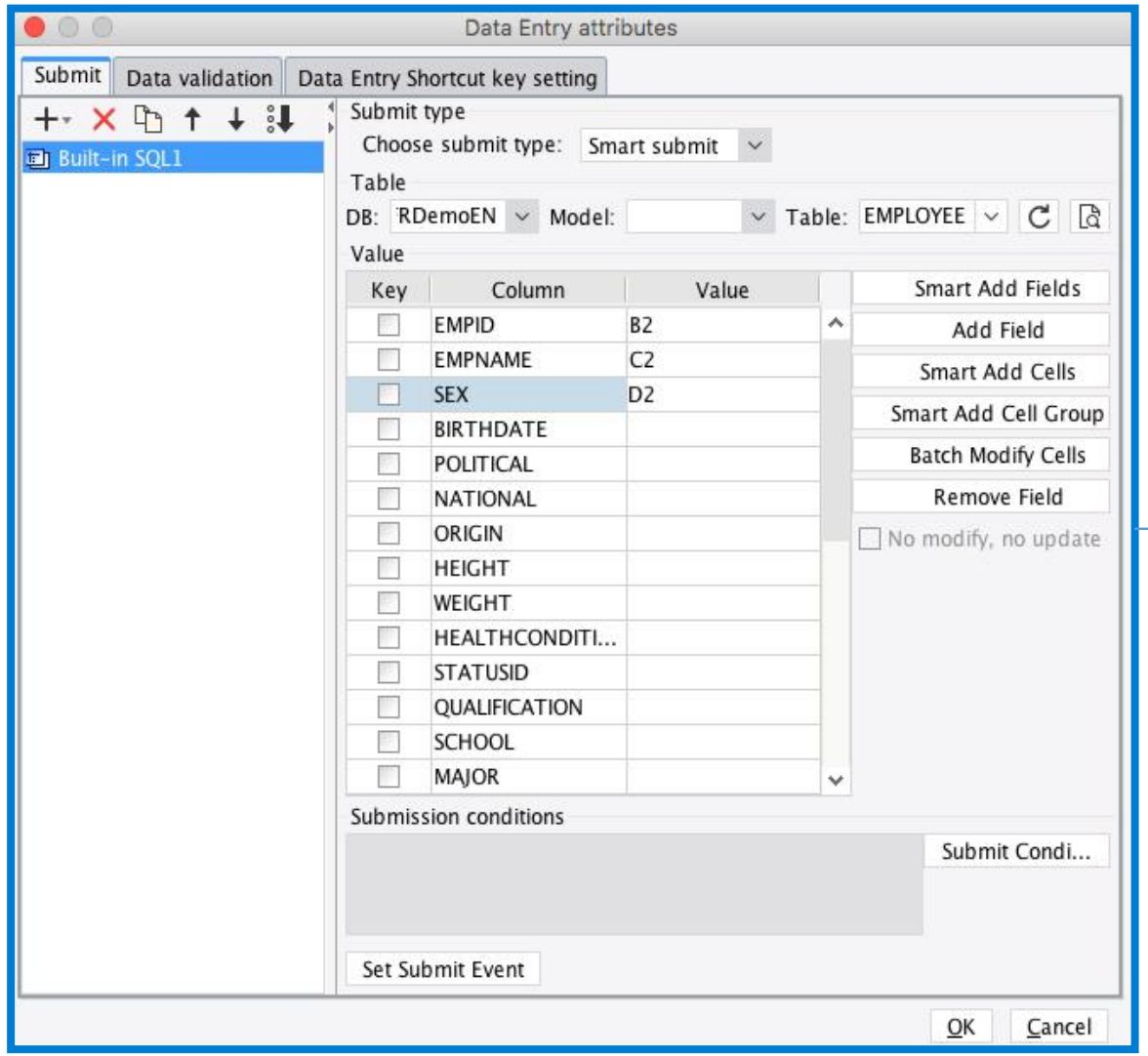
6.2 Smart Data Submission Control



4 types of built-in submission

Built-in smart submission, insert submission, delete submission, update submission, etc. You can set cells not to participate in the submission if they are not edited.

Support custom submission

Support custom Java class submission.

Smart binding fields with cells

Intelligently add fields, intelligently add cells, and quickly bind fields with respective cells.

Submission conditions & events

Support the submission criteria, only the data that meets the preset conditions will be stored in the database. Support editing submission events.

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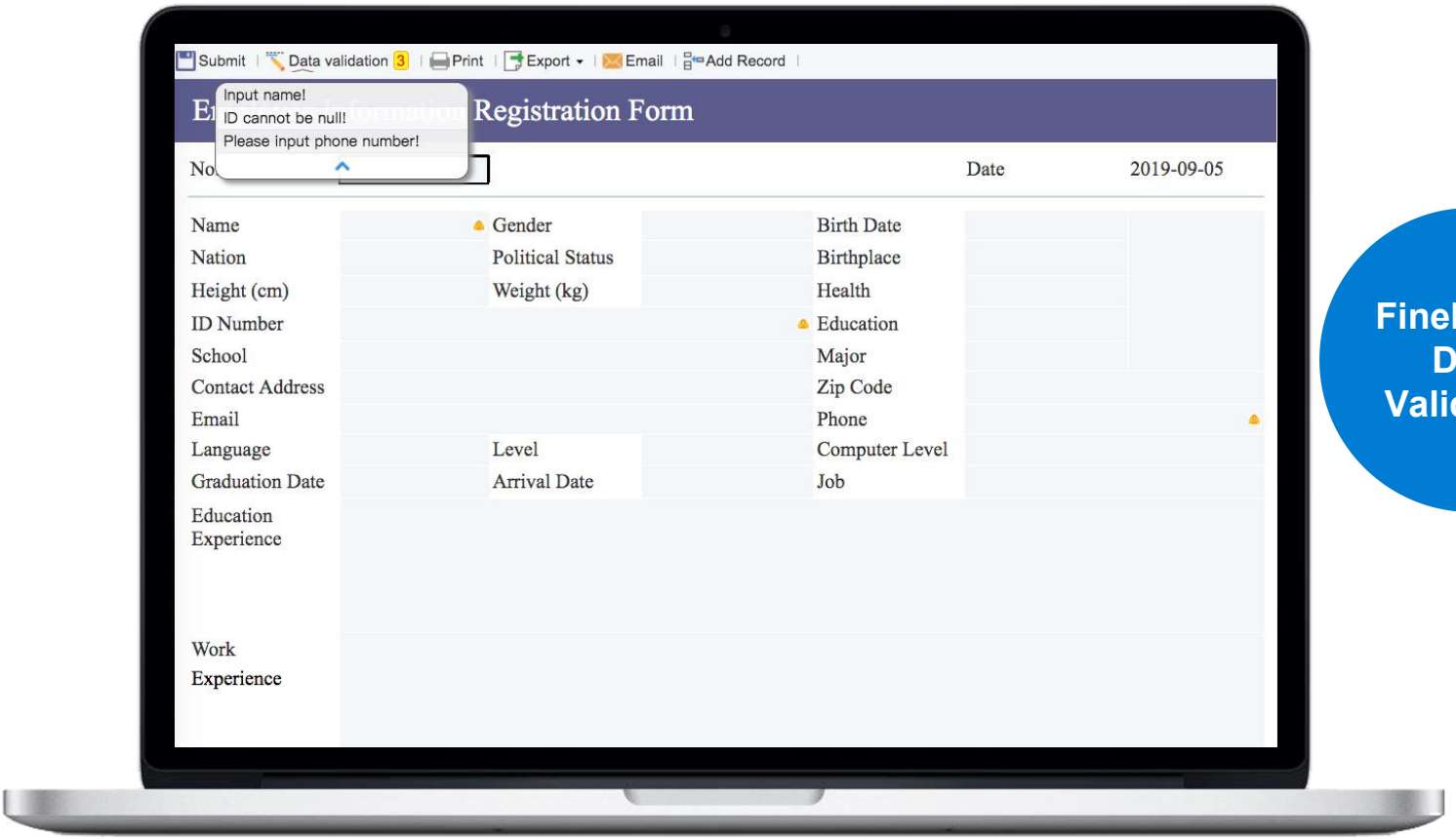
6.3 Data Validation: Ensure Data Meet Specifications

Typical Data Validation



FineReport Data Validation

- **Timely validation**

  Validate the contents of the cell at the time when they are edited. Criteria include the length of the text and the precision of numbers.

- **Submit validation**

  Global data validation at submission time; Support formulas/custom Java classes.

- **JS validation**

  Support writing JavaScript events to implement complex data validation.

- **Mandatory submit**

  Can force the data to be submitted even though they do not pass validation.

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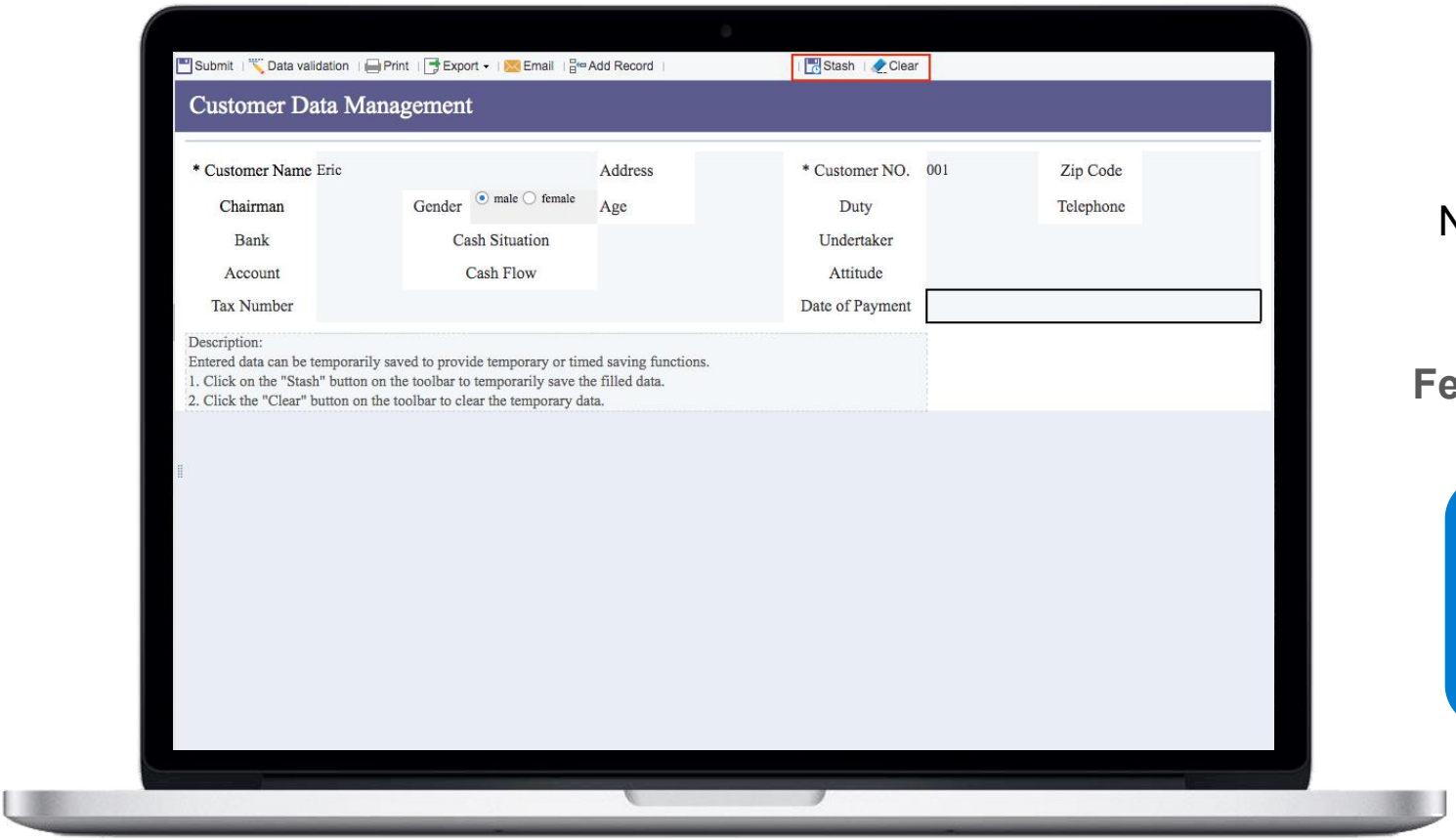
6.5 Data Entry Cache: Intelligent Cache Technology to Avoid Accidental Loss of Data

Cache Tool



Scenarios:

Network interruption;
Server emergency

Content to be determined
need reconsider before submission

Features:

- Cache by user
- Clear cache
- Automatic cache
- Manual cache

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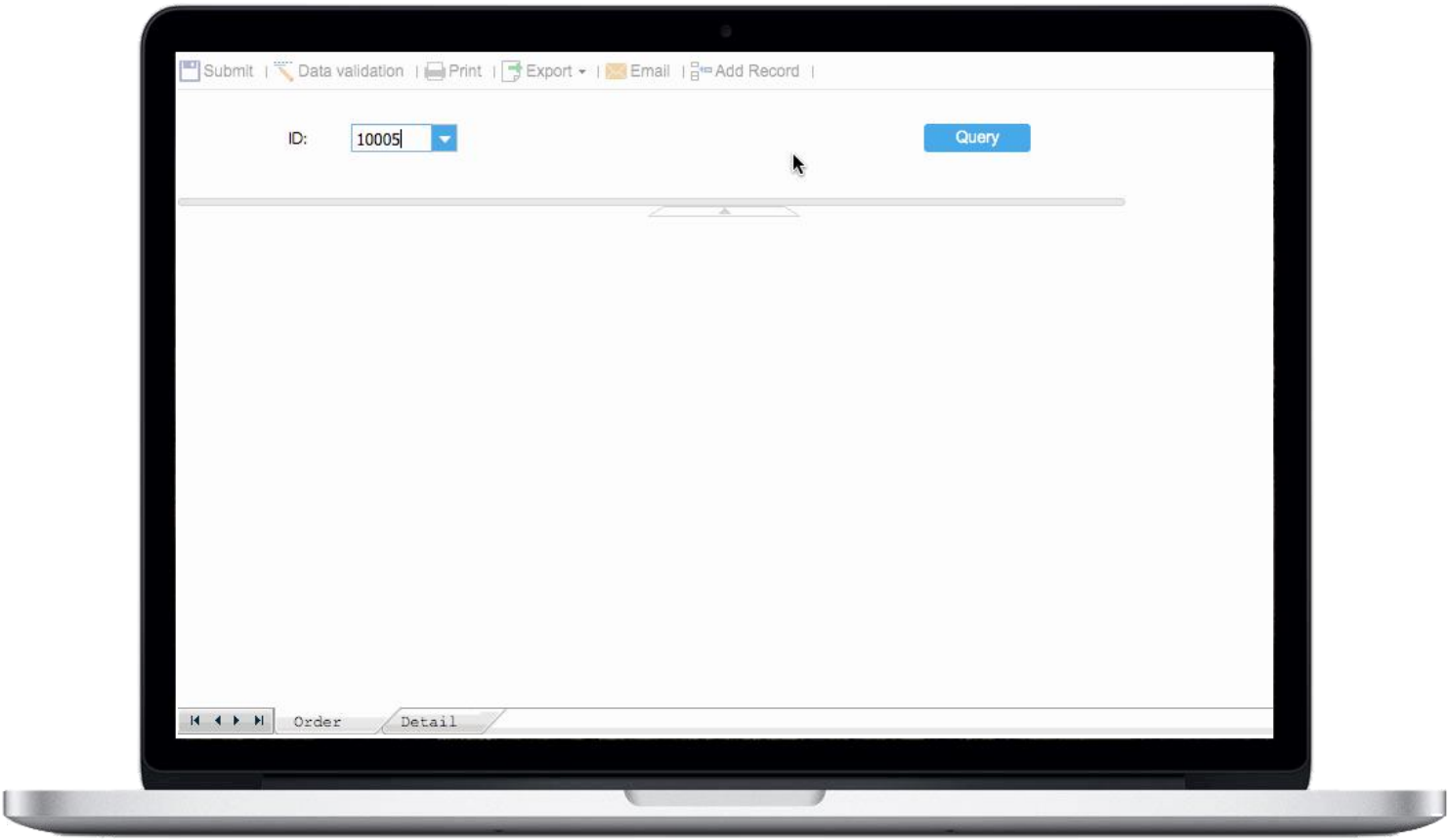
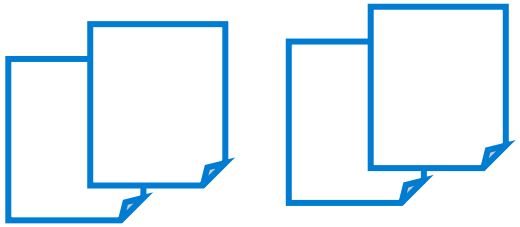
6.6 Multi-sheet Data Entry: Support Report Batch Submission

Multi-sheet Data Entry



Scenarios:



A form contains multiple units of data that correspond to different topics.

Features:

- Cross-sheet calculation
- Independent validation of each sheet
- Submit the current sheet or all sheets.
- Different sheets can be submitted to different databases or tables.
- Once submitted, validate all sheets at one time.

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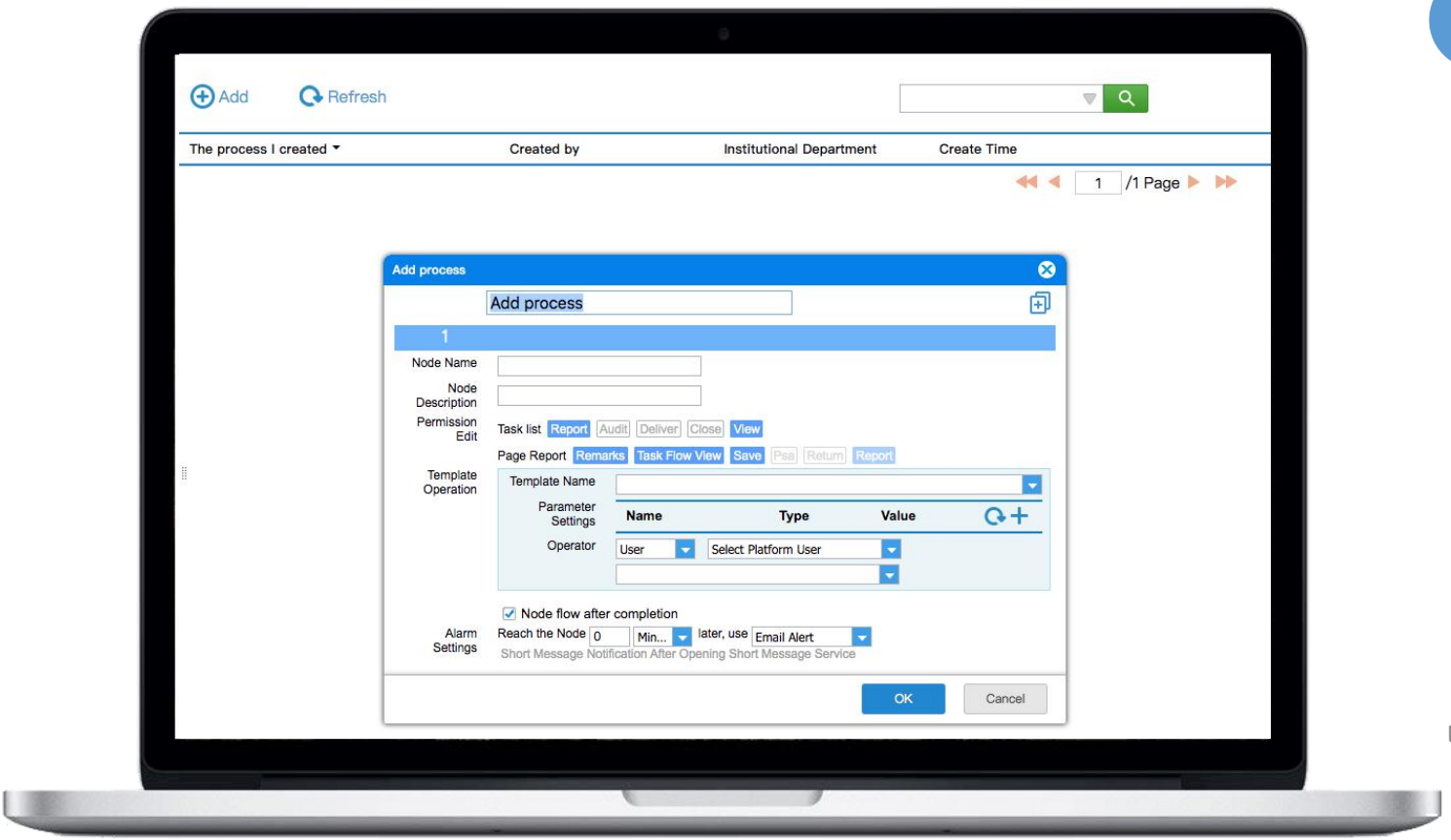
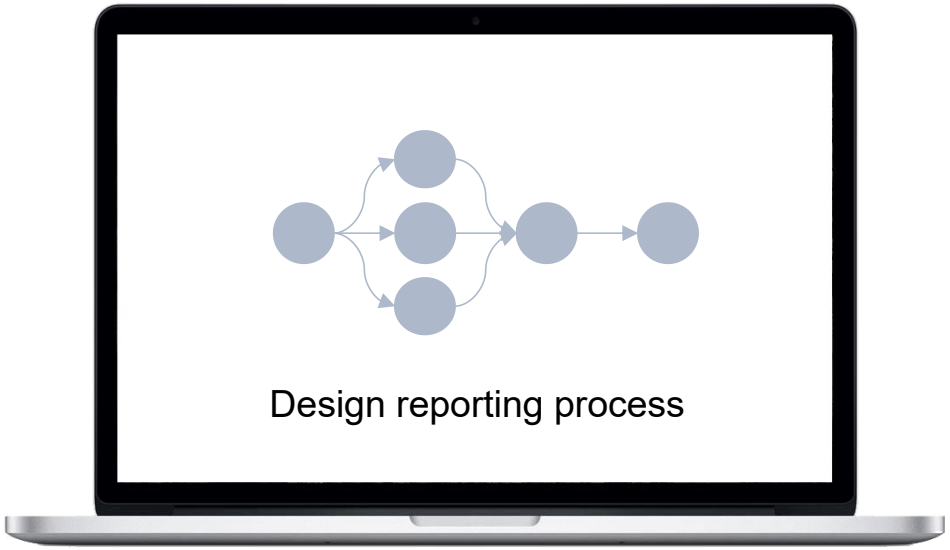
6.7 Multi-level Reporting: Well-organized Processes of Form Submission, Approval to Return

Multi-level Reporting Settings



1 Support Multiple processes

2 Support rich ways of reminding



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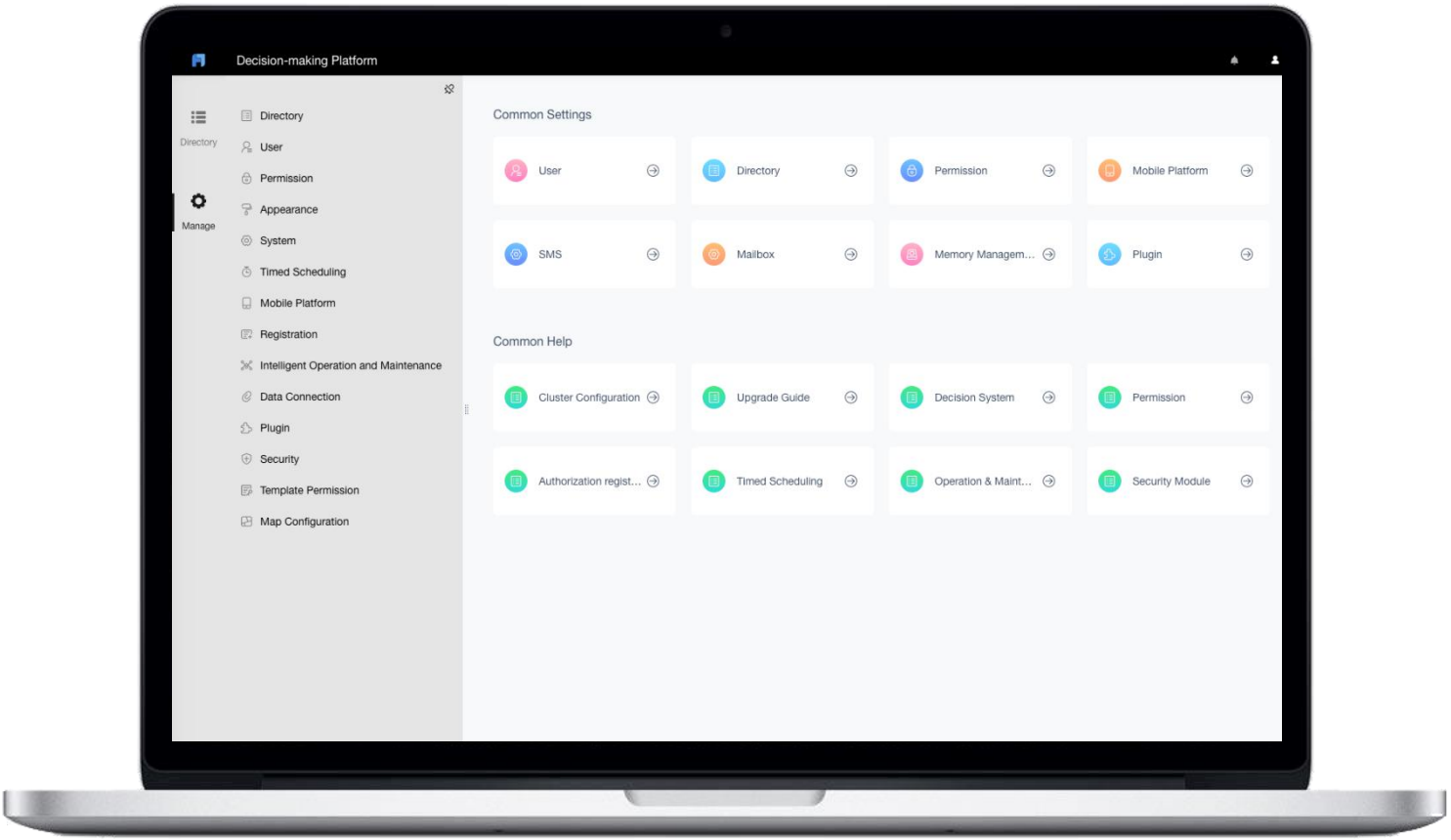
07

Decision-making Platform

7.1 Decision-making Platform: Unified Management of Reports, Users and System Configuration

Platform Interface



Decision-making Platform

- User Management
- Intelligent Operation and Maintenance
- Directory Management
- Task Schedule
- Permission Management
- Security
- System Management
- Appearance Configuration

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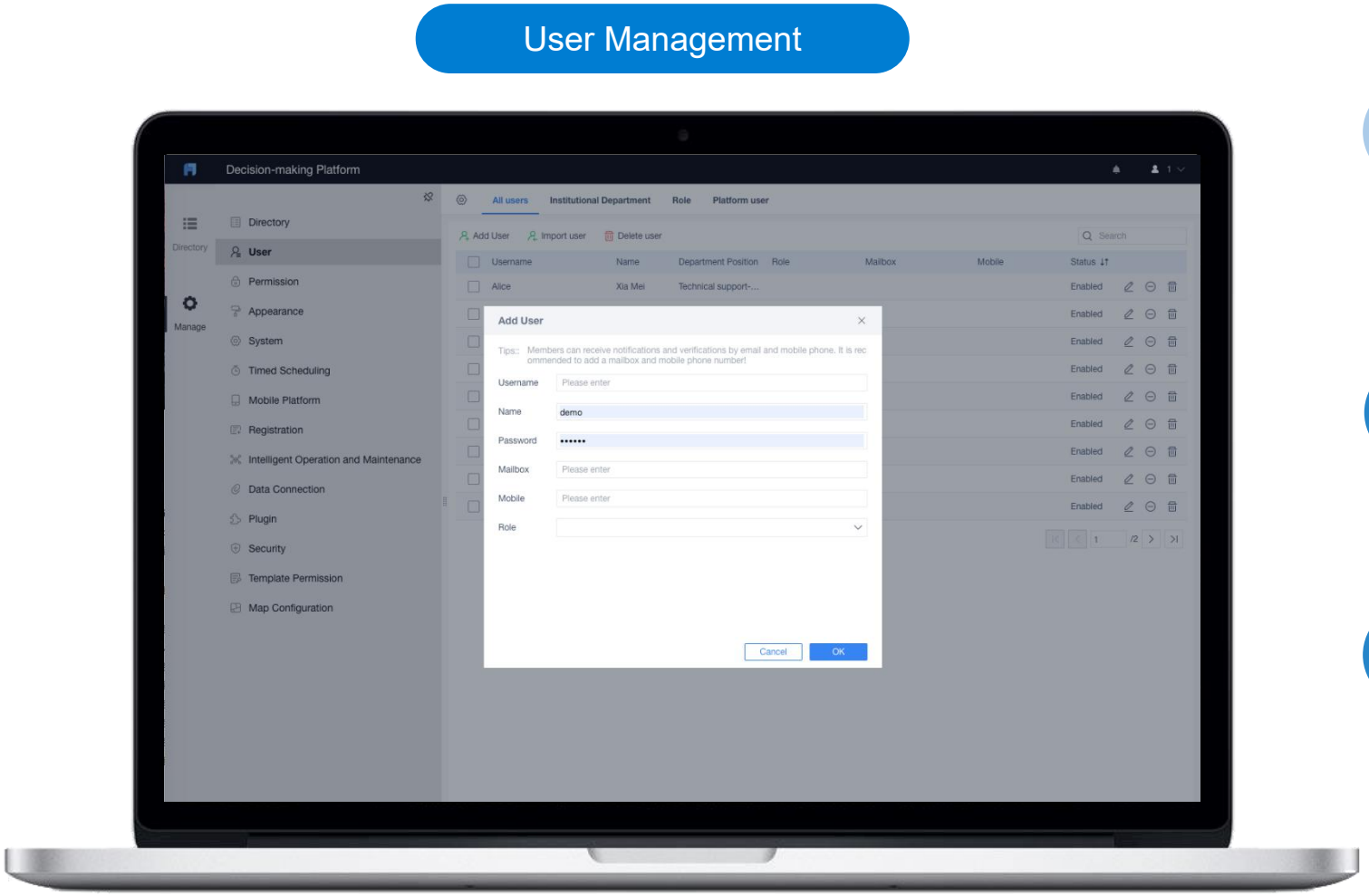
7.2 User Management: Built-in Users, Import Users, Synchronize User Data & User Authentication



1

Users adding

Support manually adding/importing users and synchronizing user datasets in batches to add users and their positions and roles.

2

Departments and roles

Users can be classified and managed according to organizational structure and roles.

3

User authentication

Provide built-in authentication, LDAP authentication, and HTTP authentication. The 3 user authentication methods can be combined with any system platform.

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7.3 Authority Management: Visible Configuration Process, Fine Permission Granularity

Permissions to access and edit system resources

Permission assignment based on different user groups

Fine Permission Granularity

- Report access and editing permissions
- Different users see different set of reports and management items
- Data access control to ensure data security

- Position
- Role
- Individual user

- Toolbar permissions
- Widget permissions
- Data entry permissions

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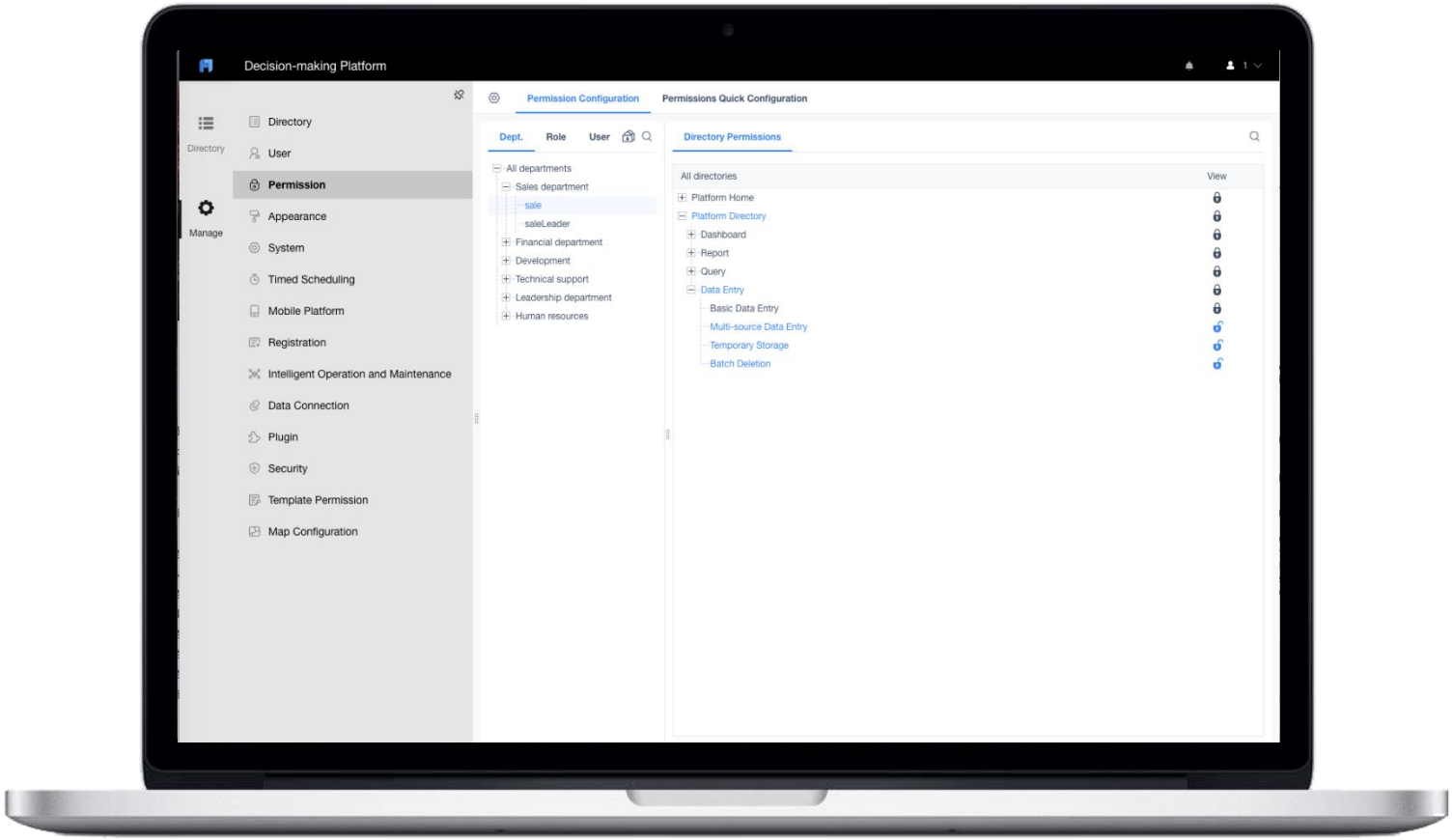
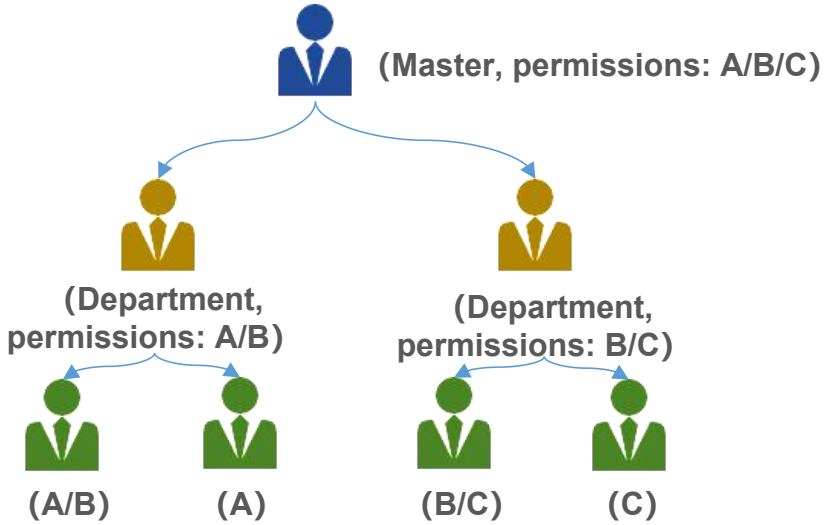
7.4 Hierarchical Authorization: Layered Authority Assignment

Hierarchical Authority Management



Hierarchy



Core Value:

Through hierarchical authority management, different subsidiary companies/departments can share the same systems. Each subsidiary company/department has its own administrator and assigns authority to its subordinate employees. The super administrator controls all the permissions, and the subordinate administrator can only manage users and report templates within their own authority.

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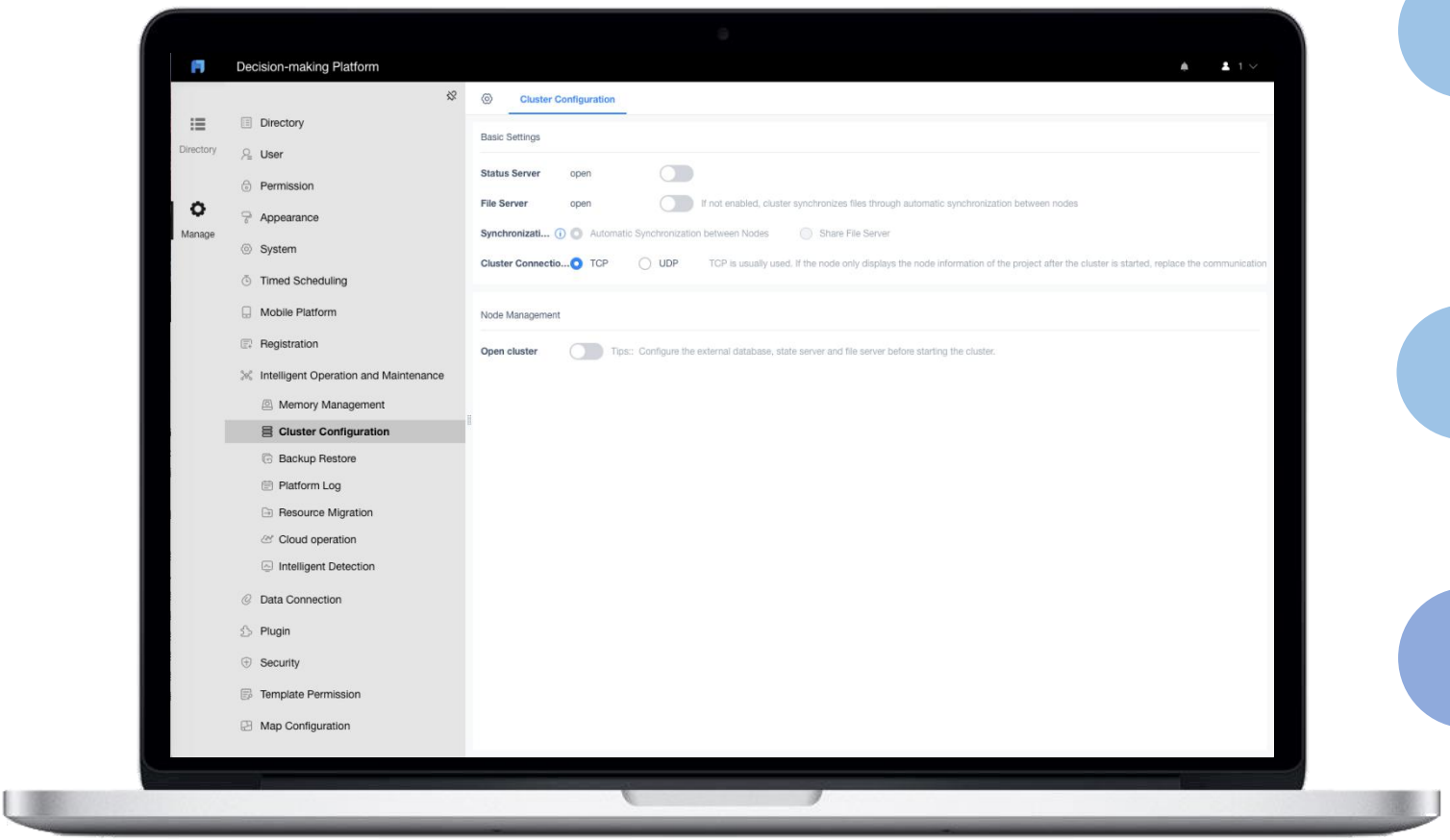
7.5 Intelligent Operation and Maintenance: Memory Management, Cluster Configuration, Backup and Restore

Intelligent O&M



1

Memory Management:
Real-time monitoring and alerting including memory and CPU utilization. Support intelligent control of the survival, cleanup, and life cycle of sessions. Support constraints on data size in a single template and the execution time of SQL to ensure stable operation of the server.

2

Cluster Configuration:
Quickly configure the cluster environment via simple operations. Support configuration of state servers and file servers in the platform, and support hot deployment of adding/dropping nodes.

3

Backup and Restore:
Support backup and restore of system configuration information, templates, jars, etc. Support setting backup and restore frequency, backup path and backup quantity, and space occupation, etc.

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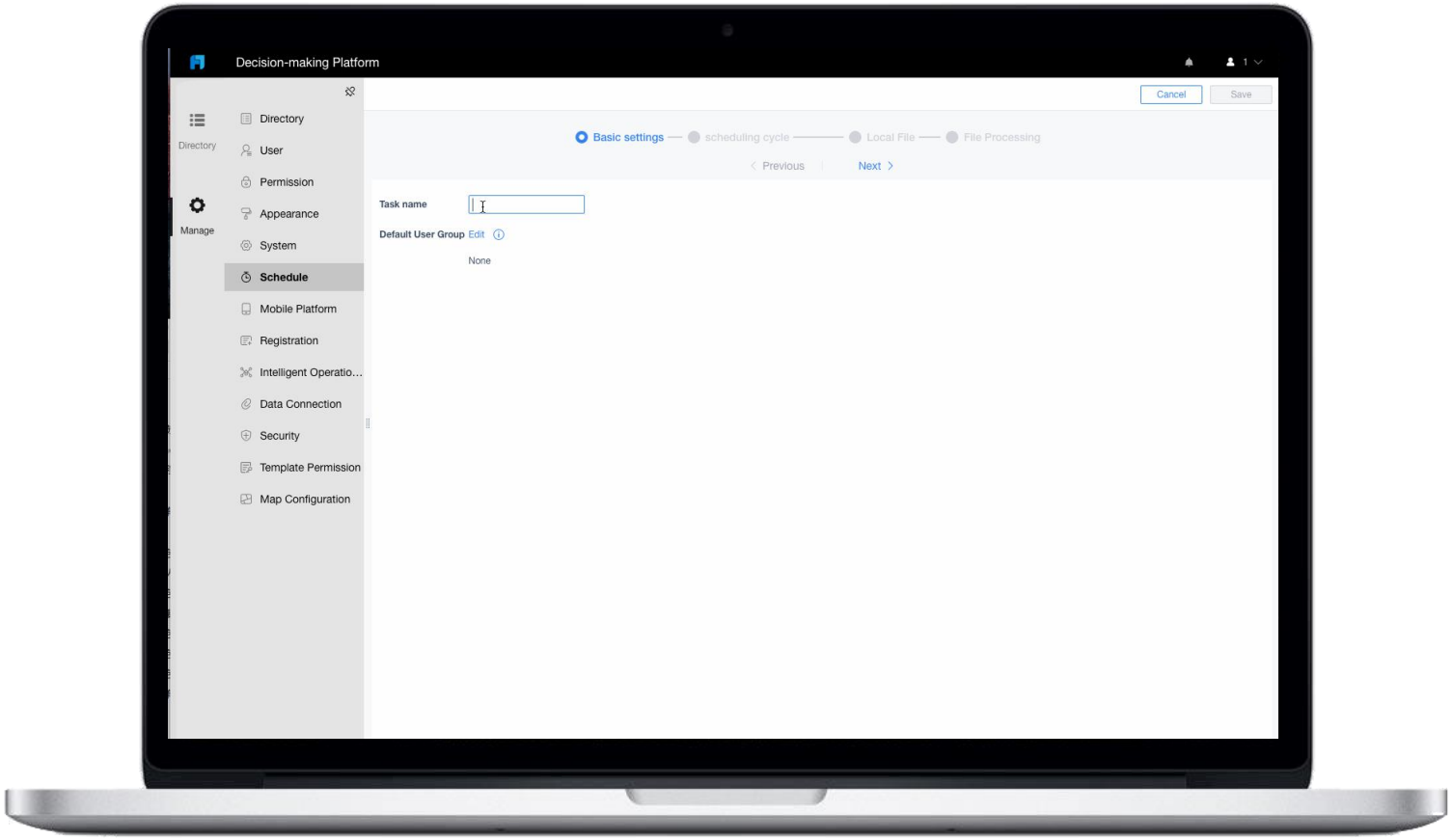
7.6 Task Schedule: Trigger Tasks Automatically Based on Conditions

Task Schedule



1. Perform specific tasks corresponding to preset cycle frequency/condition. Efficiently implement tasks such as daily, monthly, quarterly, and annual reports.

2. The result files generated by the scheduled task can be saved in the specified directory, FTP or as an attachment for email reminder. SMS notifications, platform message notifications, and pushing to mobile terminals are also available.

3. Centralized management of scheduled tasks, including viewing task running status, pausing, editing and copying, etc. Support schedule task permission control to generate different results for different users, roles or positions.

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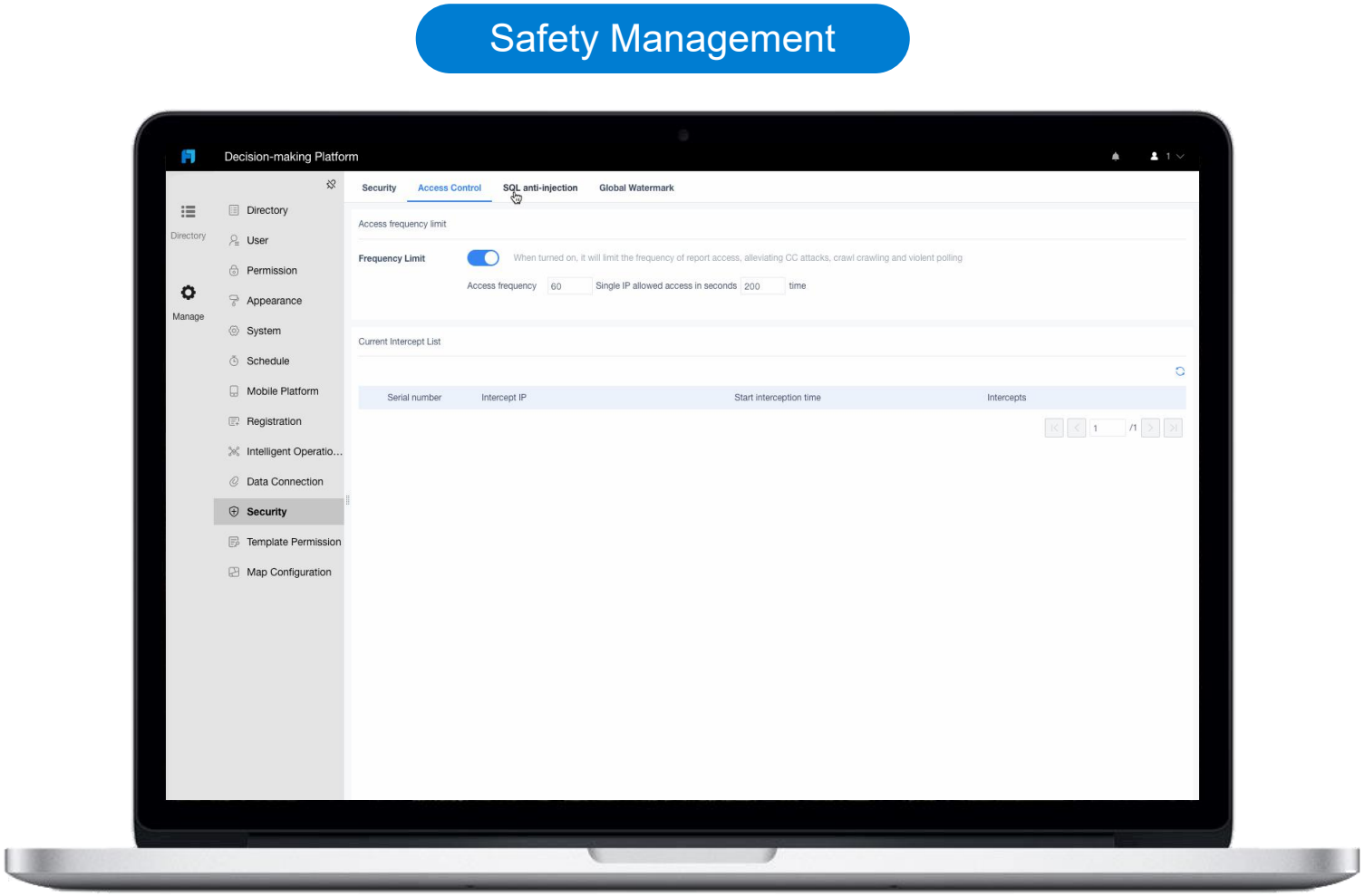
7.7 Safety Management: Comprehensively Improve Enterprise Information Security



1

Security Protection:
Include cookie enhancement, file upload verification, and Security Header.
It can reduce the threat of uploading malicious files, cross-site scripts and other attacks.

2

Access Control:
Mitigate CC attacks, web crawling and brute-force cracking by limiting the frequency of report access.

3

SQL Anti-Injection:
Users can prevent the injection of malicious parameters by disabling special keywords and character escaping.

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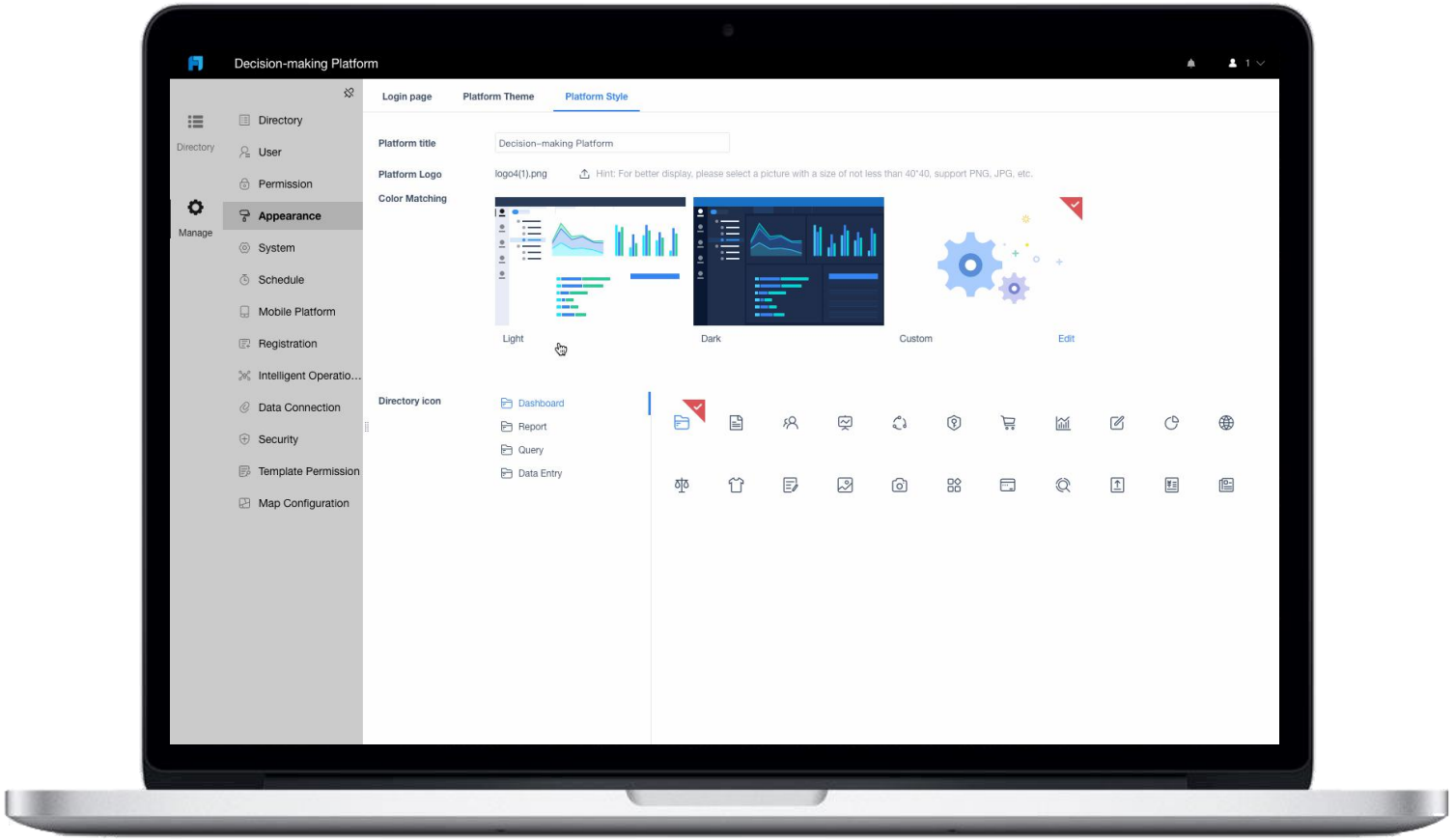
7.8 Platform Appearance Configuration: Custom Login Page, Background, Theme, etc.

Appearance Setting



Quick configuration selection:

- Login page
- Theme Options
- Template Style

Open API for custom themes:

- Overall style
- Interaction style

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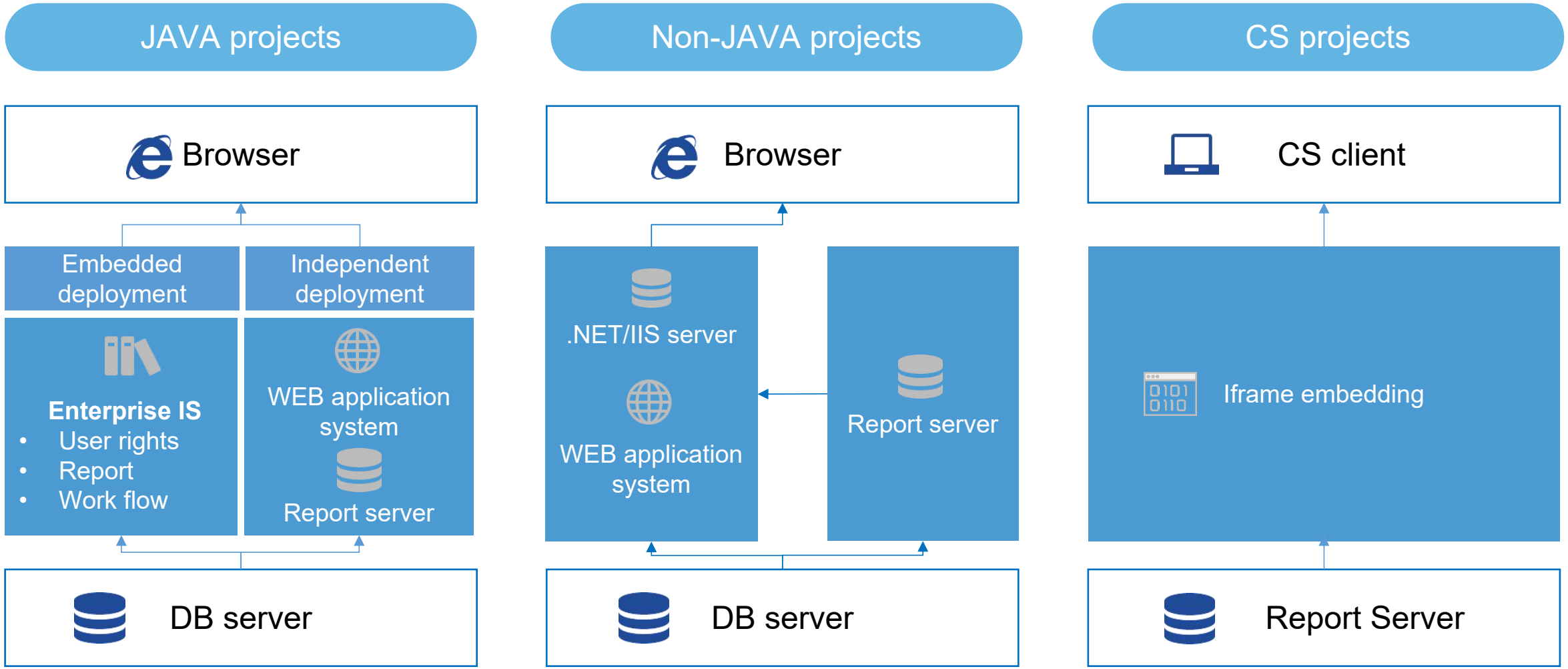
08

Deployment & Integration

8.1 FineReport is 100% Java Software: Support Deployment and Integration with Various Projects



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8.2 Cluster: Improve System Performance and Reliability

1

High Consistency

All configurations and files made through the FineReport product can be synchronized to each node in the cluster at any time.

2

High Availability

All stand-alone features are supported. When one node crashes, the system can still behave normally.

3

Powerful Features

As the number of nodes increases, the concurrency supported by the system grows almost linearly, and the load of each node is more balanced.

4

Simple to Use

The cluster environment can be quickly configured through simple operations in the platform, where the addition and deletion of nodes supports hot deployment. In addition, you can monitor the health and logs of each node in the platform.

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8.3 Single Sign On: Multiple Configuration Methods

1 AJAX

Support cross-domain, asynchronous identity authentication and authentication timeout processing.

2 iframe

Support cross-domain, but not asynchronous authentication. Does not support timeout processing.

3 Action submission

When the report authority is verified, the url in the form can be used to trigger the url verification, which is convenient and fast.

4 CAS single sign on

Support Central Authentication Service.

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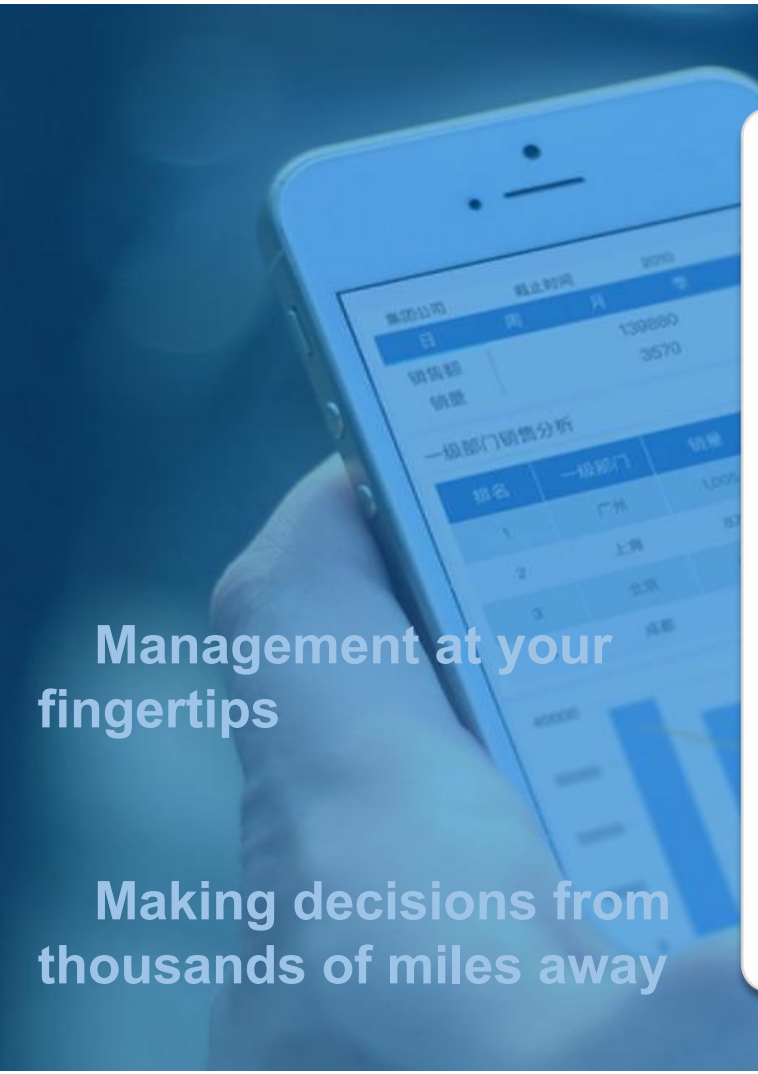
数据决策系统
Mary
首页
移动端报表
参数查询
人事报表
销售报表
主题分析
管理系统
31,279
车辆销售总情况
30天
90天
最后一年
34%

09

Mobile BI

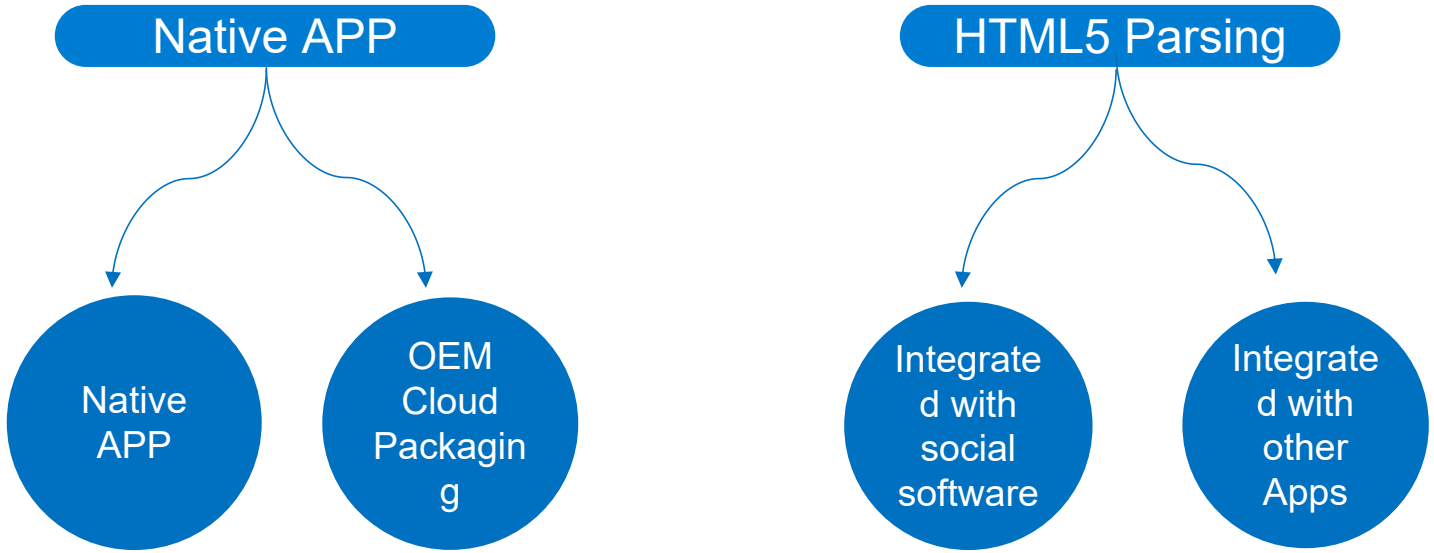
9.1 FineReport Mobile Application Architecture



Management at your fingertips

Making decisions from thousands of miles away

<Native parsing and HTML5 parsing run neck and neck>



The native app uses ReactNative technology to support extension/customization functions, and the entire system has excellent stability and scalability.

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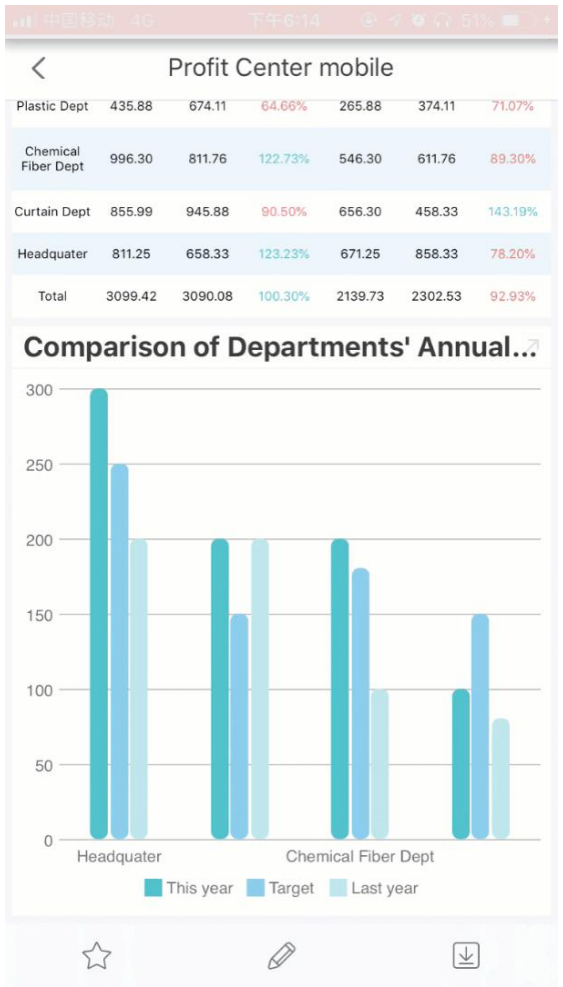
9.2 Mobile App - Featured With Interactive Effects

Component Magnification

Chart Zooming



Data Point Prompt

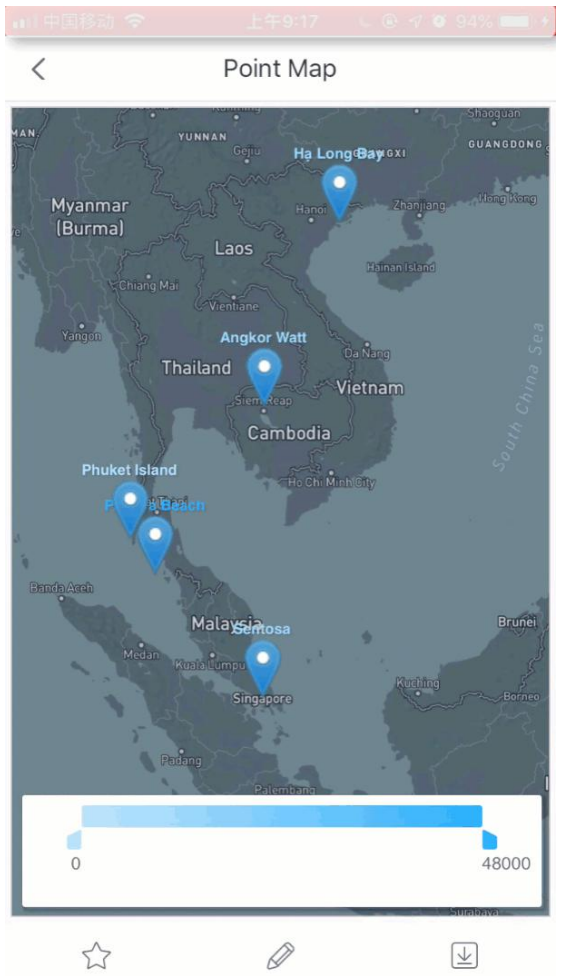
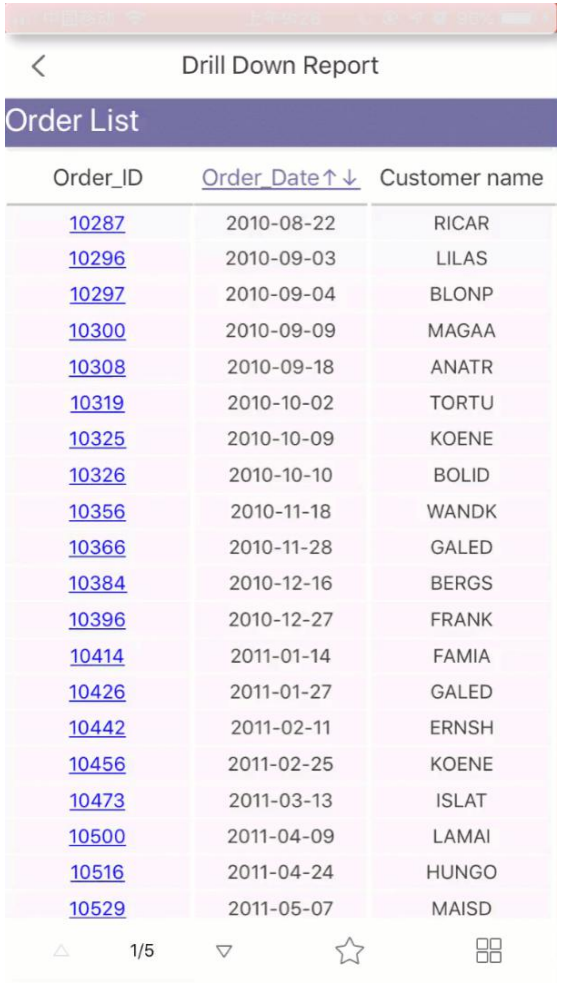


Table Flipping Over



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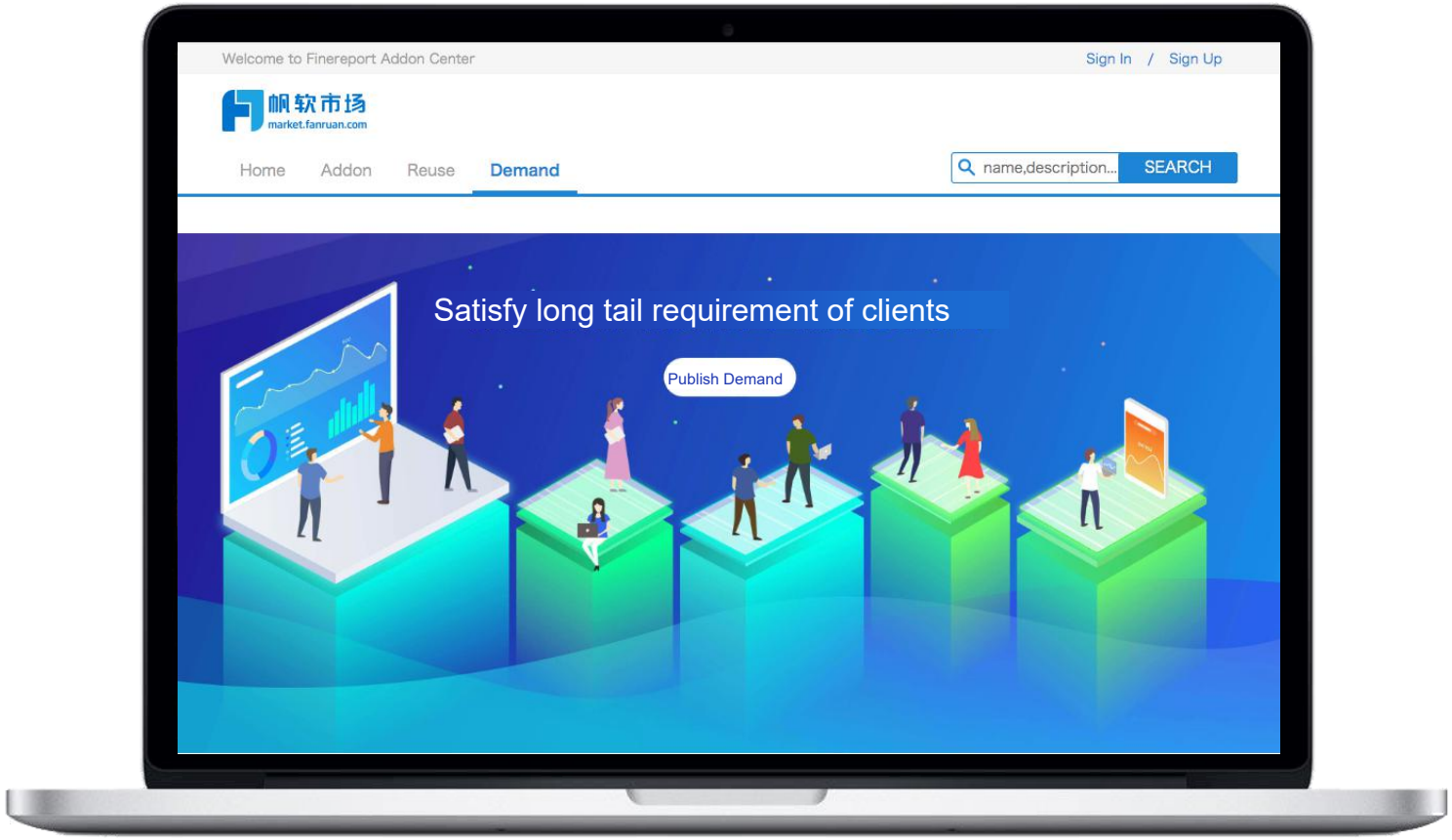
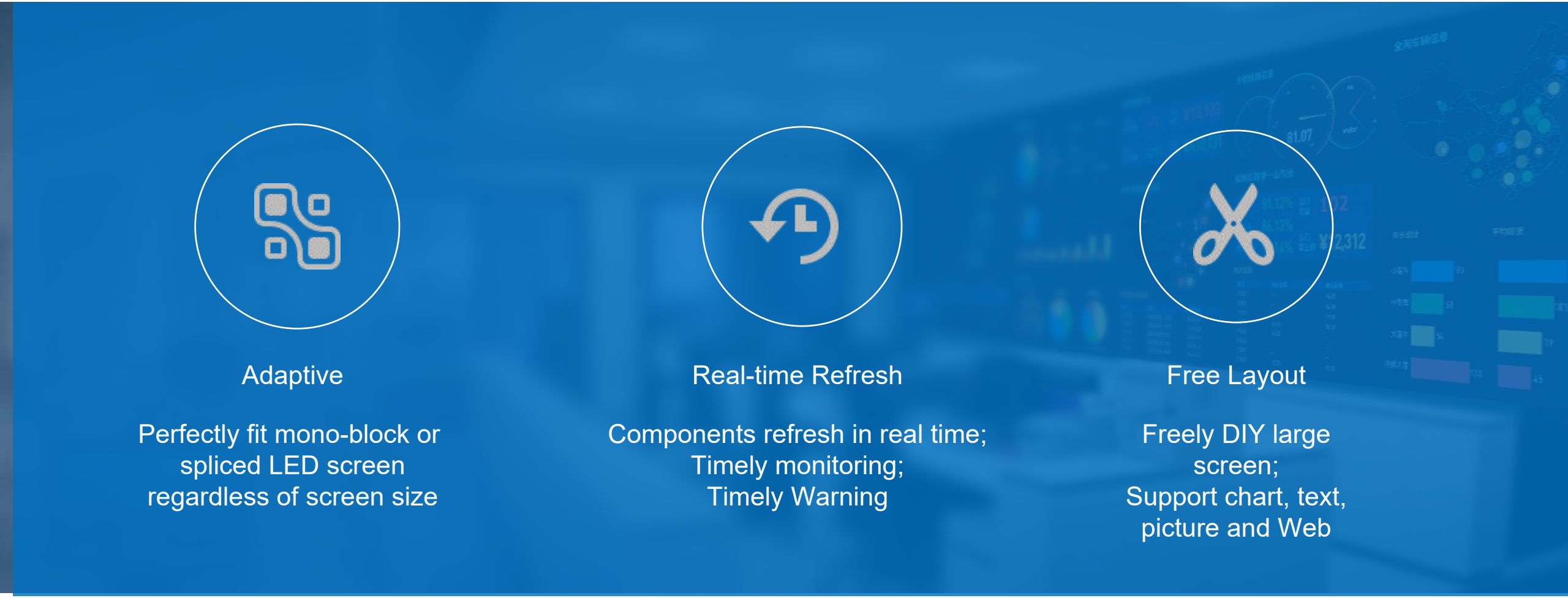
9.3 OEM Cloud Packaging & Personalization

Personalized App customization service based on cloud platform to create enterprise-specific mobile data analysis products.



9.4 Adaptive Display on Large Screen Devices



Adaptive

Perfectly fit mono-block or spliced LED screen regardless of screen size

Real-time Refresh

Components refresh in real time;
Timely monitoring;
Timely Warning

Free Layout

Freely DIY large screen;
Support chart, text, picture and Web

10

Customer Service

FineReport is Trusted by over **18,000 Global Clients**

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Local Service Network and Service Mode

Offline service network

Online service

- Hotline
- E-mail
- Enterprise QQ
- Enterprise WeChat
- Online Chat
- Facebook
- Help Doc
- YouTube Lessons

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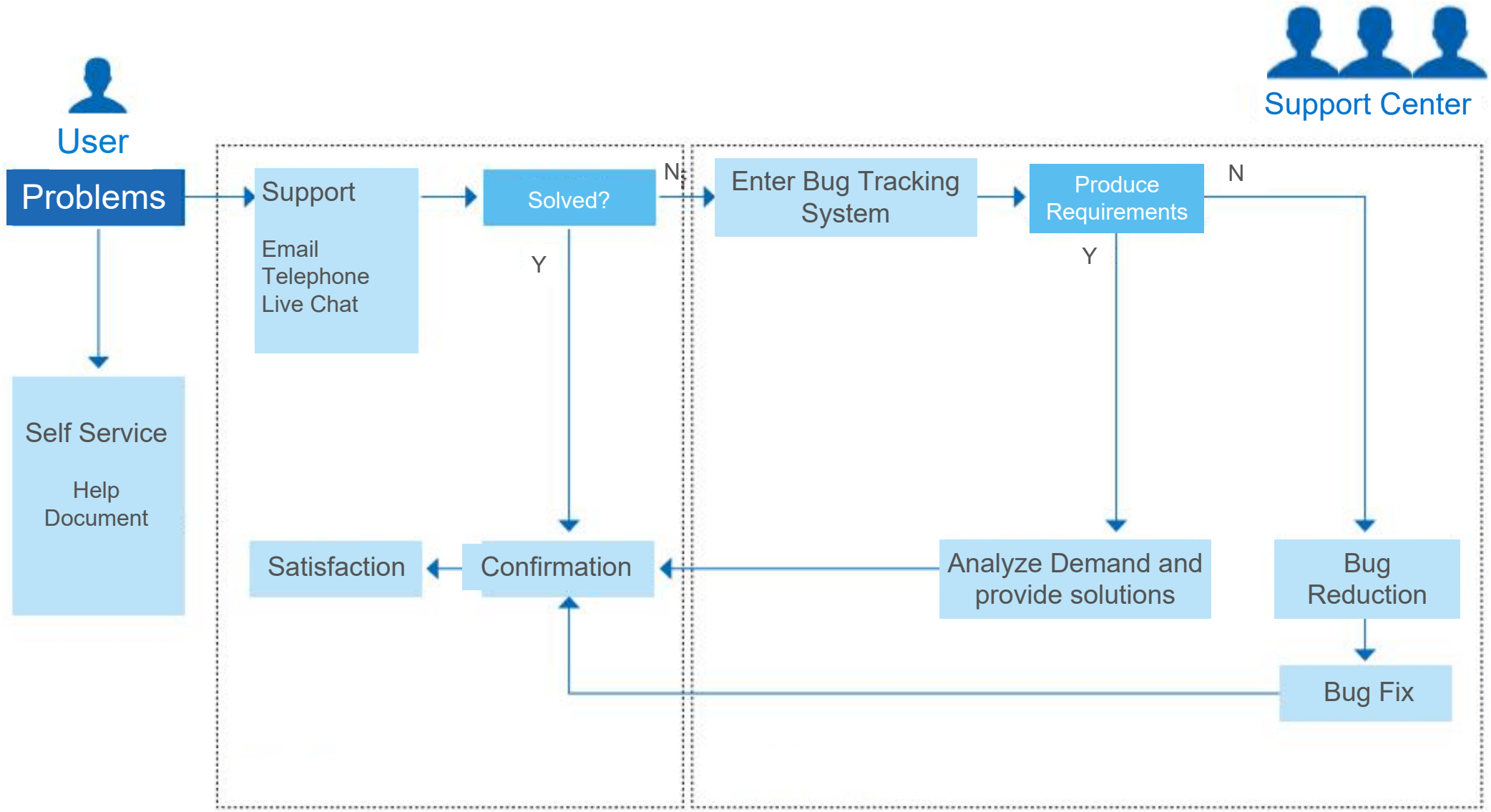
FineReport Service Quality Management System



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To Learn More About FanRuan and FineReport

Official Website

http://www.finereport.com/en/

Business Consultation

Email: international@fanruan.com

Hotline: 4008-5050-48

Facebook

Help Documents

https://help.fanruan.com/finereport-en/

Technical Support

Enterprise QQ：800049425

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THANK YOU

End of presentation

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