Overall Proposal & Quote

Health Screening CRM Platform

AI Contactless Screening Display • Customer Health Profile Admin

Powered by Shenshi engine SDK: 60-second seated camera scan for vitals, mental state, and health risks; results auto-saved to the customer profile



43”
4K portrait touch display

40 PD
26 development items

¥23,000
Total quote (dev fee)

30 days
Timeline

Wenzhou Shanku Technology Development Co., Ltd. · Based on requirements & interactive prototype · October 2026

About Us

Shanku: a passionate team dedicated to shaping a new era of development

Shanku

Wenzhou Shanku Technology Development Co., Ltd.
温州闪酷科技开发有限公司

Years of custom enterprise software development—an innovative force of builders. We combine modern development practices with efficient tooling to meet industry demand for fast delivery.

Unified Social Credit Code	91330302MADP5MWE97
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Custom Enterprise Software

System delivery across government, healthcare, cross-border e-commerce, local lifestyle, industry SaaS, and AI applications

Modern Practices × Efficient Tools

Mature admin scaffolding and code generation for routine features, so time goes to hard business problems

Prototype First, Then Build

Confirm requirements with interactive prototypes; frame scope as background → pain points → solution → flow → value

Full-stack Small Team Delivery

Requirements, design, front/back end, and ops owned end-to-end—short communication path, fast response

Tech Stack

- Vue 3
- Element Plus
- Node.js · Midway.js
- Cool-Admin
- Java Spring Boot
- uni-app Mini Program
- MySQL / Redis
- Linux / Docker

Related Cases

Relevant experience: healthcare, Windows local SDK integration, admin & analytics, rule-based auto calculation

Healthcare

Hospital Supplies Management

Primary hospital material requests and multi-level approval on DingTalk; HIS charge sync auto-deducts department stock; syncs legacy MSSQL inventory

Healthcare

Hospital OA Platform

Six in-hospital approval flows including drug stats and medical-record access; visual approval chains; mini-program + PC admin with full audit trail

AI Apps

Multi-asset AI Trading Desk

Windows integration with broker MT5 terminal SDK—live quotes, positions, engine start/stop; multi-agent AI analysis with hard pre-trade risk controls

Gov & Stats

Government Mu-jun Evaluation

Multi-agency review for hundreds of enterprises; auto scores and ABCD tiers by industry baselines & weights; regional stats and report export

Industry SaaS

Tourism Direct & Distribution

WeChat mini-program package sales, promoter commissions, e-ticket validation, AI customer service; live in production

E-commerce & Overseas

Italy Inventory & Retail

Wholesale/retail inventory + POS for Chinese merchants; Italy e-invoicing compliance, multilingual, custom printing

More cases: freight/moving platform, UK D2C store, influencer commerce, foundation investment mgmt, employment data sync, public-opinion platform integration, etc.

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01

Project Understanding

Roles & usage flows

Roles & Usage Flows

Customers and on-site staff use the touch display; admin users manage customers and data in a desktop browser

Role	Where	Main tasks
Customer	Display (touch)	Self-serve ID entry or registration, start screening, view progress and results
On-site Staff	Display (touch)	Assist customers who need help; end or retest when necessary
Admin User	Admin console (desktop browser)	Manage profiles, view/print reports, tag and segment customers, review analytics

Customer on the display

Tap "Start Screening"	Enter ID number	Quick registration	Sit still 60s	View results	Auto archive
Standby screen Large button	On-screen keyboard, 18 digits Returning customer confirm	Name only Consent checkbox	Live video & metrics Adjust posture as prompted	Health score & anomalies Vs. last visit	Saved to profile Back to standby in 60s

Admin user

View screening records → **Open & print health report** → **Review health trends** → **Auto + manual tags** → **Segment & export list**

02

Front-end Display

43″ portrait design · 7 screens & flows · Prototype page walkthrough

Screenshots from the interactive HTML prototype (原型图.html), scaled for 4K portrait; sample data for demo only

43” Portrait Touch Design

Upright screen ~0.95 m tall; on a floor stand top is ~1.9 m from floor: upper half for display only; all buttons and keyboard in the lower half



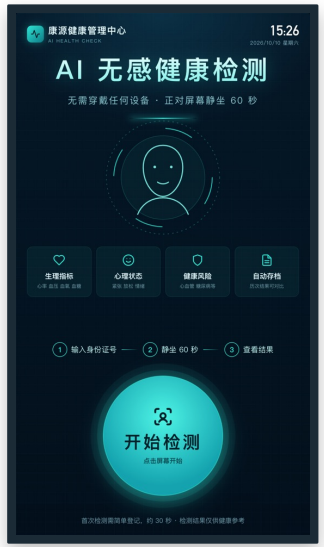
Yellow dashed line: “reach zone” annotation in the prototype

Item	Arrangement
Screen	43” touch screen, used upright (confirmed)
Resolution	4K portrait; design and develop at 2160×3840 (confirmed)
Interaction	All on-screen taps; no external mouse/keyboard; customer self-serve with staff nearby
Touchable area	Buttons, keyboard, and inputs concentrated in the lower half; upper half display-only
Type & buttons	Sized for 0.8–2 m viewing; key numbers readable from a distance; large enough for finger taps
Idle timeout	ID entry and registration return to standby after 60s idle so customer data does not linger
Visual style	Keep the existing dark tech look; unified palette, type, and icons

Camera placement and customer posture are decided by you on site (confirmed); the display does not specially adapt to mount position. When the face is small, angled, or lighting is poor, prompt the customer per engine tips.

7 Display Screens

Ordered by a single customer screening; each step can go back; Chinese guidance when quality fails or errors occur















1 Standby

Large “Start Screening”

2 Enter ID

Returning customer confirm

3 Quick registration

New customer profile

4 Screening

Live video & metrics

5 Results

Score, anomalies, compare

6 Low quality

Reasons & retest

7 Device error

Chinese cause & next steps

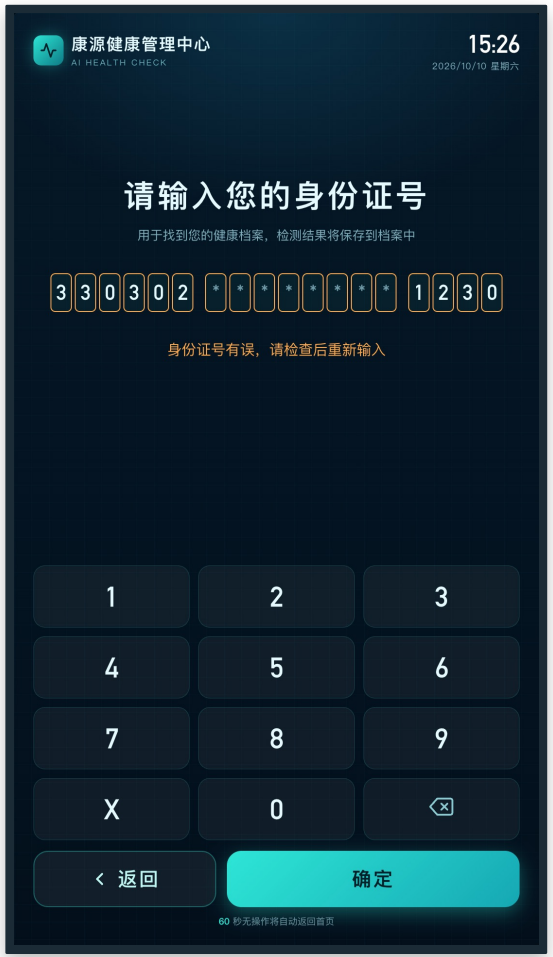
Returning: 1 → 2 → 4 → 5; New: 1 → 2 → 3 → 4 → 5. Screening can be ended anytime (not saved). After 60s idle on ID/registration, or 60s on results, auto return to standby.

Display Prototype • Enter ID

ID number is the unique customer key; the engine does not identify who the person is—select the customer by ID before screening (confirmation item #11)



Enter ID number



Invalid number



Returning customer confirm

- On-screen keyboard: 0–9, X, delete; X only when last digit is X
- 18 digits grouped 6-8-4; birth-date 8 digits masked in real time
- Full 18 digits validated by national checksum; errors shown, no lookup
- Profile found: masked name, gender, age, prior count; tap “Yes, start screening”
- Not found: go to new-customer quick registration with ID carried over
- No phone number collected; 60s idle returns to standby

Display Prototype • New Customer Quick Registration

~20 seconds: gender and birth date from ID; only name + consent needed to create a back-end profile and start screening



Quick registration



View consent

Field	Input method
ID number	Carried from previous step, masked; no re-entry
Gender, birth date	Auto-derived from ID number; no manual entry
Name	Windows built-in touch keyboard with Pinyin
Data consent	Must check to save; full agreement text available

Save auto-creates a back-end profile, source “Display registration”, with consent time and agreement version

Optional fields (height/weight, history, meds) filled by staff in admin

One profile per ID number; no phone number collected

Consent text provided by you, or drafted by us for your approval (confirmation item #18)

Display Prototype • Screening in Progress

Portrait zones top to bottom: customer info, live video, vitals, mental state, health risks; action buttons at the bottom



Screening (second 40)



Tip when head moves

Zone	Content
Top	Logo, time; customer bar: masked name, gender, age, visit count
Upper	Live video and face box, countdown ring (default 60s), progress; large Chinese tips for posture/lighting issues
Middle	Vitals: heart rate, BP, SpO_2, glucose, HRV, functional age; respiration rate and waveform
Lower-mid	Mental state: spirit, expression, tension value/level, relaxation, chronic stress, recovery index, vitality; seven-emotion radar
Lower	Health risks: each risk level; pending values show “Detecting…”
Bottom	“End Screening” button; ended sessions are not saved

Metrics refresh every second from the engine; timing varies: HR/BP within seconds, risk items appear later in the session.

Display Prototype • Screening Results

On quality pass, auto-switch to results and save to admin; returning customers see vs. last visit; new customers see first-visit tip



Returning customer result



New customer result (lower-right differs)

Block	Content
Overall	Health score ring, one-line conclusion, normal vs. watch counts, up/down vs. last
Metrics to watch	Vitals outside reference range; medium/high risk items
Health risk report	Abnormals among 15 items; cardiac arrest risk not shown on display (admin report only)
Mental state	Spirit, tension level, chronic stress, expression, seven-emotion radar
Vs. last visit	Score and key metrics up/down; mark improved vs. worsened
Bottom	“Retest” / “Done”; auto standby after 60s; disclaimer

Results page dwell defaults to 60s; configurable in admin (confirmation item #9).

Display Prototype • Low Quality & Device Errors

When something goes wrong, tell the customer what to do—not just an error code



Insufficient screening quality



Device error

Insufficient Screening Quality

- At end of duration, key metrics incomplete or signal quality below threshold
- List adjustment tips from issues seen: head movement, dim light, face obscured, etc.
- “Retest” one-tap retry; this session is not saved

Device Error

- Camera disconnected, license expired, screening service not running, etc.
- Chinese reason and steps; “Retry” and “Back to Home”
- Issues needing admin (e.g. expired license) prompt contacting staff
- Error-code ↔ Chinese mapping on the “Display & Engine Integration” page

03

Back-end Admin

Analytics · Profiles & health trends · Screening records & health reports
Segments · Tag management · System settings

Admin Prototype • Analytics



Analytics

Home after login; all stats support time range and Excel export

Overview: total customers, new this month, screenings this month, avg health score vs. prior period

Volume: switch by day / week / month

New vs. returning: new = first screening

Demographics: gender, age band, source

Age bands from profile birth date, not engine estimate; voided records excluded

Admin Prototype • Analytics (cont.)



Analytics (cont.)

Population distribution of health risks and mental state

Risk distribution: low / medium / high share per risk item; split by gender or age band

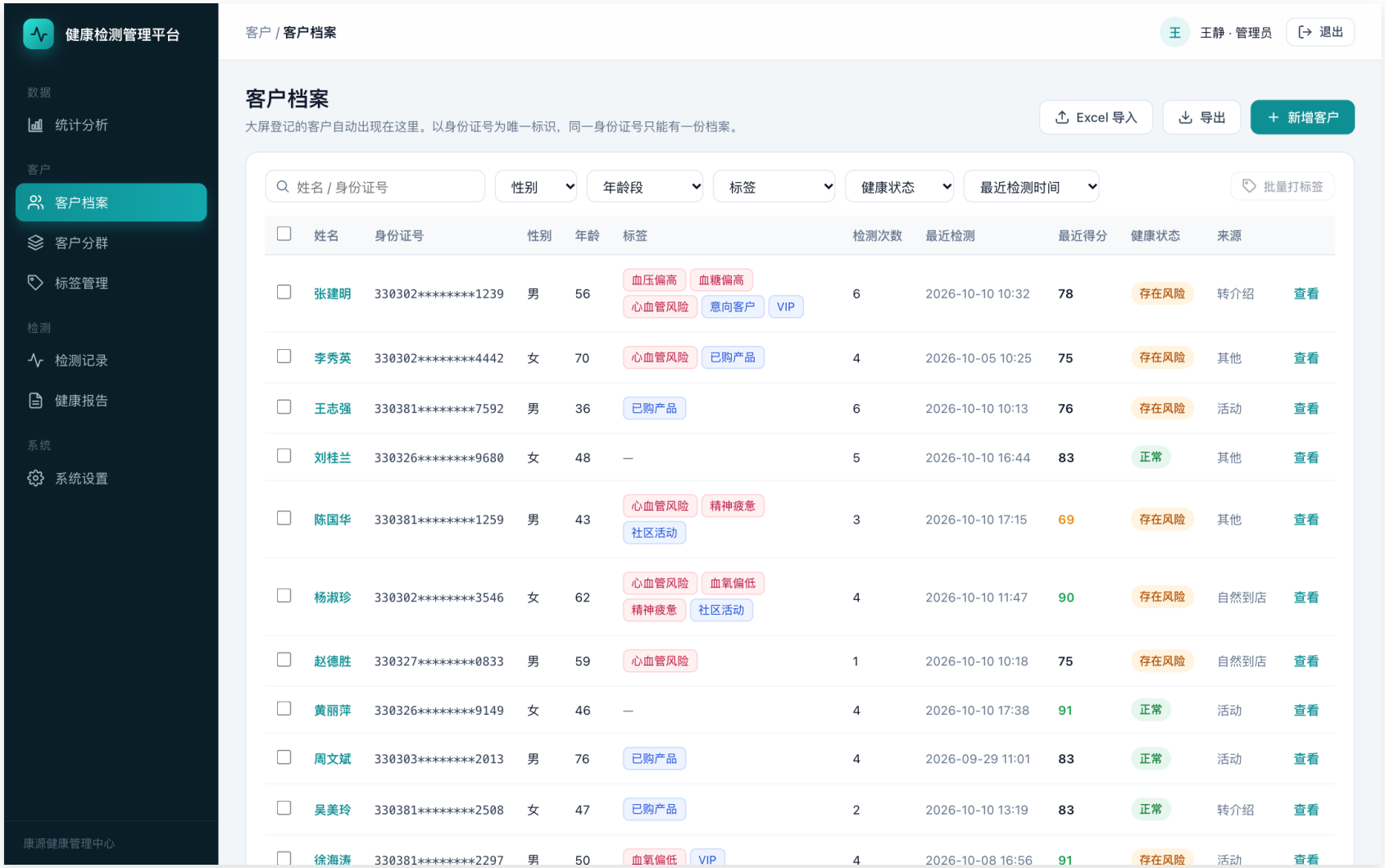
Anomaly ranking: abnormal counts for BP, glucose, SpO_2, etc., high to low

Mental distribution: tension level, spirit, chronic stress

Retest: share with ≥2 screenings; share with improved health score

Tag distribution: customer count per tag

Admin Prototype • Customer Profiles



Customer Profiles

Display-registered customers appear here automatically

ID number as unique key; masked in lists; no phone numbers stored

Filter by name, ID, gender, age band, tags, health status, last screening time

Create: validate ID; gender/birth date auto-filled; one profile per ID—duplicates prompt and jump to existing

Excel import of historical customers (template provided); export list

Select and bulk-apply manual tags

Red = auto tags; blue = manual tags

Admin Prototype • Customer Detail • Basic Profile



Customer Detail • Basic Profile

All information for one customer on a single page

Header: name, health status, gender/age, source, creation method, current tags; screening count, latest score

Basic profile: display registration fields + staff-added height/weight, history, meds, notes

Consent records: time, source, agreement version

Tabs: screening records, health trends, tag history (when applied/removed and why)

Admin Prototype • Customer Detail • Health Trends



Customer Detail • Health Trends

Change across valid screenings—see improvement or decline at a glance

Metrics: health score, BP, heart rate, SpO_2, glucose, respiration, tension

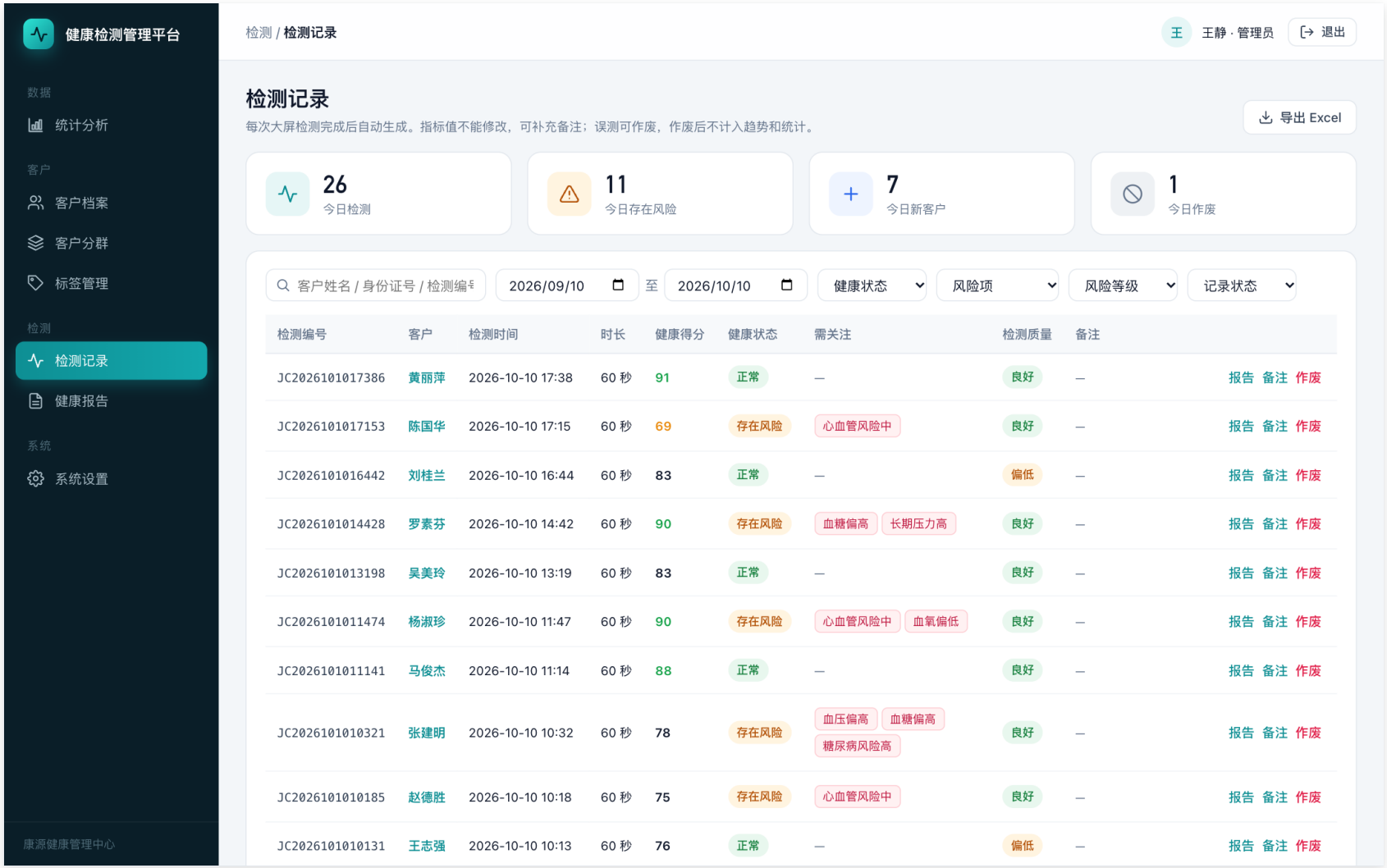
Ranges: last 3 months, 6 months, 1 year, all

Green band = normal range; outliers are obvious

Below: risk-level change table; side-by-side compare any two screenings (better / worse / same)

Voided screenings excluded from trends

Admin Prototype • Screening Records



Screening Records

Auto-created after each display screening

Today’ s count, with risk, new customers, voided count

Filter by customer, time, health status, a risk level, record status; export Excel

Metric values are immutable; notes can be added (e.g. “customer reported poor sleep”)

Mistaken records can be voided with a reason; kept for audit but excluded from trends, tags, and stats

Admin Prototype • Health Report



Health Report

Generated from a screening record; printable and PDF export

Header: facility name & logo, report ID, screening time, customer info

Health score & overall conclusion, change vs. last visit

Vitals: value, unit, reference range, normal / high / low, prior result

Right: this customer’ s past screenings; switch to view

Admin Prototype • Health Report (cont.)



Health Report (cont.)

Mental state, risks, and 15-item risk report

Mental & emotion: spirit, tension, relaxation, chronic stress, recovery index, seven-emotion radar

Health risks: each risk level including cardiac arrest (sudden death)—not shown on display

15-item health risk report: normal or abnormal

Also: process curves (HR, tension), health advice, disclaimer

Advice text per anomaly from admin-maintained copy (confirmation item #14)

Admin Prototype • Customer Segments



Customer Segments

Combine filters for follow-up and campaign invites

Saved segments e.g. “60+ · high BP · no screening in 30 days”; lists update with latest data

Filters: tags (any / all), gender, age band, health status, screening count, last screening

Live count of matching customers

Save as segment; export list to Excel

Admin Prototype • Tag Management



Tag Management

Auto tags by rules; manual tags by staff

Auto rules: apply when a metric hits a level or range, e.g. “SBP > 139 or DBP > 89 → High BP”

Based on latest valid screening; auto-remove when back to normal

Enable / disable rules; show current customer count

Manual tags: prospect, purchased, VIP, etc.—custom and bulk-apply

Admin Prototype • System Settings



System Settings

Admin-maintained; affects display and report presentation

Reference ranges: low/high bounds shared by display colors and report judgment; toggle display visibility

Health advice: copy by metric and level

Facility info & disclaimer: name, logo, disclaimer text

Display parameters: duration, results dwell time, quality thresholds

Consent agreement version; admin account management

04

Effort & Quote

Quote overview · 26 effort line items · Payment milestones & notes

Development 40 person-days, 3-person team (UI, Front-end, Back-end), timeline 30 days

Quote Overview

Dev fee ¥23,000: 26 items, 40 person-days, 3-person team, timeline 30 days; server & domain billed separately, first-year optional

Development Fee

¥23,000

26 items · 40 PD

Server (1 year) • Optional

¥700

Deductible if you provide

Domain (1 year) • Optional

¥100

Deductible if you provide

Total

¥23,800

Timeline 30 days

Module	Includes	Items	PD	Amount
Front-end Display	Display framework & engine integration, 7 screens, quality judgment, result upload	9	12	**¥6,900**
Back-end Admin	Login, customer profiles, screening records, health reports, trends, tags, segments, analytics, settings	12	16	**¥9,200**
Design & Delivery	UI design, database & API design, on-site engine integration, testing, deployment & training	5	12	**¥6,900**
Dev Subtotal		**26**	**40**	**¥23,000**
Server & Domain	Server (1 year) ¥700; Domain (1 year) ¥100 (optional; deductible if you provide)	2	—	**¥800**
Total				**¥23,800**

Delivered by 3-person team: UI Designer 6 PD; Front-end Engineer 15 PD; Back-end Engineer 19 PD; front-end and back-end in parallel; timeline 30 days.

Effort Detail • Front-end Display

9 items · Subtotal 12 person-days

#	Feature	Description	Owner	PD
1	**Display framework & 4K portrait adaptation**	2160×3840 portrait layout and components; Chrome fullscreen with auto-start; return to standby after 60s idle; facility info and clock	**Front-end**	1.5
2	**Shenshi engine integration**	WebSocket start / stop engine, receive results and video; metric parsing (show “Detecting…” when pending); tip codes to Chinese prompts; error codes to exception screens	**Front-end**	2
3	**Standby screen**	Screening instructions, three-step flow, large “Start Screening” button	**Front-end**	0.5
4	**ID entry & identity confirmation**	ID keyboard (0–9, X), masked birth date, checksum validation, profile lookup, returning-customer identity confirm	**Front-end**	1
5	**New customer quick registration**	Gender and birth date from ID number; name (system touch keyboard); consent checkbox and full agreement text; save creates a back-end profile	**Front-end**	1
6	**Screening-in-progress screen**	Live video with face box, countdown and progress; vitals with color judgment and respiration waveform; mental state and seven-emotion radar; risk items appearing progressively; posture and lighting tips	**Front-end**	3
7	**Screening result screen**	Health score and conclusion, metrics to watch, abnormal risk items, mental summary, vs. last visit; layouts for new and returning customers; auto return to standby	**Front-end**	1.5
8	**Quality judgment & exception screens**	Quality judgment (complete metrics, face, signal quality); insufficient quality with reasons and retest; device errors with Chinese reasons and retry	**Front-end**	1
9	**Result upload & offline retry**	Upload screening results and per-second curves to back end; local cache when offline, auto re-upload when restored	**Front-end**	0.5
	Subtotal			**12**

Effort Detail • Back-end Admin

12 items · Subtotal 16 person-days

#	Feature	Description	Owner	PD
10	**Login & accounts**	Account/password login, change password; admin create/disable accounts, reset passwords	Back-end	0.5
11	**Customer list & profiles**	Multi-criteria filter; create/edit customers; unique ID with checksum and masked display; bulk tagging	Back-end	1.5
12	**Customer import/export**	Excel template import of historical customers (validation, duplicate prompts); export customer list	Back-end	1
13	**Customer detail**	Four tabs: basic profile, screening records, consent records, tag history	Back-end	1
14	**Screening records**	Auto-created from display screenings; filter by customer, time, health status, risk level; add notes, void, export Excel	Back-end	1
15	**Health report**	Vitals with reference ranges, mental/emotion radar, risk levels and 15-item report, process curves, vs. last visit, health advice, disclaimer	Back-end	2.5
16	**Report print & PDF**	A4 print layout; server-side PDF download	Back-end	1
17	**Health trends & comparison**	7-metric change curves with normal ranges, time-range switch; risk-level changes; compare any two screenings	Back-end	1.5
18	**Tag management**	Auto-tag rule config; auto-apply after screening, auto-remove when back to normal with change history; manual tags	Back-end	1.5
19	**Customer segments**	Combine filters: tags, gender, age band, health status, screening count, last screening; live headcount; save segment; export list	Back-end	1
20	**Analytics**	Overview, screening volume, new vs. returning, demographics, risk distribution, anomaly ranking, mental distribution, retest stats, tag distribution; time range and export	Back-end	2.5
21	**System settings**	Reference ranges, health advice copy, facility info & disclaimer, display screening parameters, consent version	Back-end	1
	Subtotal			**16**

Effort Detail • Design & Delivery

5 items · Subtotal 12 person-days

#	Feature	Description	Owner	PD
22	**UI Design**	4K portrait display design drafts (7 screens); admin UI design	UI	6
23	**Database & API Design**	Data table design; display and admin API design	Back-end	1.5
24	**On-site Engine Integration**	Integrate Shenshi engine on screening PC; tune quality thresholds and tips; validate type size and touch on 43″ screen	Front-end	1.5
25	**Integration Testing & Fixes**	End-to-end testing and bug fixes; acceptance-scenario walkthrough	Front-end	1.5
26	**Deployment & Training**	Cloud server deploy with HTTPS; screening-site install; deploy docs, user manual, and training	Back-end	1.5
	Subtotal			**12**
	Dev Total (26 items)			**40**

Payment Milestones & Quote Notes

Based on development fee ¥23,000, paid in three stages 40% / 30% / 30%

1 Deposit • 40%

¥9,200

Contract signing

2 Mid-term • 30%

¥6,900

Full screening flow running on screening PC; main admin features demoable

3 Final • 30%

¥6,900

On-site acceptance passed and go-live

Quote Notes

1. Development fee ¥23,000 is a fixed package: effort for this scope totals 40 person-days and does not change with actual hours; out-of-scope work is quoted separately.

2. Server and domain are not included in the development fee; first-year purchase on your behalf totals ¥800; paid with the deposit if you authorize purchase—no charge if you provide your own.

3. Excluded: screening PC, camera, 43″ touch screen & stand, Shenshi engine license (your procurement); ICP filing (under your entity; we assist); features deferred from this phase.

4. Deliverables include source code, deployment docs, and user manual.

5. All amounts exclude tax; ordinary invoices billed at the applicable rate if required.

05

Delivery

Team & responsibilities · Implementation steps

Team & Responsibilities

3-person team: 1 UI, 1 Front-end, 1 Back-end in parallel; total 40 person-days, timeline 30 days

UI Designer — 6 PD

- 4K portrait display design drafts for 7 screens
- Admin console UI design
- UI walkthrough and adjustments during development

Front-end Engineer — 15 PD

- All display screens and interactions
- Shenshi engine WebSocket integration & quality judgment
- On-site integration, E2E testing and fixes

Back-end Engineer — 19 PD

- Database & API design
- All admin pages and back-end APIs
- Report PDF, analytics, tag rules; deployment & training

30 days Schedule



D30 Go-live: deploy, deliver docs, operations training

Implementation Steps

Timeline 30 days, counted from requirement confirmation and readiness of the screening PC and engine license; display and admin developed in parallel

Requirements	UI Design	Development	Engine Integration	On-site Testing	Trial Run	Go-live
D1–2	D3–7	D6–22	D18–24	D25–27	D28–29	D30
Confirm this proposal, prototype, and open items; you provide licensed metrics list and reference ranges	Display design at 2160×3840; admin UI design; your sign-off	Display web, admin, and APIs in parallel; database and report PDF	Integrate Shenshi engine on screening PC; tune quality thresholds and tips	Validate type, touch, and camera angle on 43″ screen; fix issues	Real customer screenings; collect feedback and adjust	Deploy cloud server, deliver docs, operations training

Key Milestones & Payments

1 M1 Proposal & Design Sign-off

Proposal, prototype, and open items confirmed; display and admin designs approved

Deposit 40% • ¥9,200 (at signing)

2 M2 Development Complete

Admin features usable; full screening flow running on screening PC

Mid-term 30% • ¥6,900

3 M3 On-site Acceptance

Continuous screening on 43″ screen; pass each acceptance criterion

Final 30% • ¥6,900

Thank You

Please confirm the proposal and open items; we welcome any feedback for adjustments