Product Requirements Document (PRD) for Self-Discovery Web Application

1. Executive Summary

- **Objective**: Build a SaaS-based Self-Discovery Web Application enabling users to take psychometric and self-evaluation tests (e.g., Emotion Analysis, Motivation Analysis, Burnout Assessment).
- **Key Stakeholders**: Product Owner,Lead, Development Team, Admin Users, End Users.
- **Timeline**: MVP in 1 month; incremental enhancements thereafter.

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2. User Personas & Roles

Persona	Description	Goals
Admin	Psychologist or HR professional setting up tests.	Create/manage tests, interpret results, publish recommendations.
End User	Individuals seeking self-discovery insights.	Complete tests, receive personalized feedback, revisit past results.
Guest/Link Recipient	May not have an account; accesses test via shared public link.	Quickly complete test without friction; secure link handling.

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3. Features & Functional Requirements

3.1 Admin Panel

1. **Authentication & Authorization**
   - Single Admin Login (JWT-based, role-based access control).

- ○ User Login (JWT-based, role-based access control).
2. **Test Management**
   - ○ Create/Edit/Delete Tests (title, description, settings).
   - ○ Configure public link: optional expiration date or access token.
3. **Section Configuration**
   - ○ Add multiple Sections per test (e.g., Emotional Exhaustion).
   - ○ Dynamic ordering or randomization toggle.
4. **Question Management**
   - ○ Add Questions under the chosen Section.
   - ○ Select Answer Type: Yes/No, Single-Choice (MCQ with custom scoring), Rating Scale (1–5 or 1–10).
   - ○ Option to randomize question order.
5. **Scoring & Interpretation Rules**
   - ○ Define mapping from raw scores to result ranges per question type.
   - ○ Section-wise Interpretation: map section score ranges to descriptive outcomes.
   - ○ Test-level Interpretation: define global result thresholds and descriptions.
   - ○ Recommendations: associate recommendations with score ranges.
6. **Dashboard & Reporting**
   - ○ View recent test takers, aggregated scores, trends.
   - ○ Export results as CSV/PDF.

3.2 User/Test-Taker Experience

1. **Test Access**
   - ○ Access via public/shared link (secured by token/expiry).
   - ○ Optional registration for history tracking.
2. **Test Flow**
   - ○ Welcome screen with instructions.
   - ○ Question rendering (in order or randomized).
   - ○ Progress bar & section indicators.
3. **Submission & Results**
   - ○ Real-time calculation of section scores.
   - ○ Results page:
     - ■ Section-wise scores + interpretation.
     - ■ Overall score + interpretation.
     - ■ Personalized recommendation bullets.
4. **History & Export**
   - ○ Registered users can revisit past results.
   - ○ Download PDF summary or share link.

5. Database Schema

5.1 ERD Overview

Entities and relationships:

Admin 1---* Test 1---* Section 1---* Question 1---* AnswerOption

Test 1---* Interpretation

Test 1---* Recommendation

Section 1---* SectionInterpretation

User 1---* UserResponse *---1 Question

User 1---* TestResult *---1 Test

4. UI Wireframe Suggestions

1. **Admin Dashboard**:
   - Side nav: Tests, Sections, Questions, Reports, Settings.
   - Main pane: List of tests with Create Test button.
2. **Test Builder**:
   - Tabbed interface: Details, Sections, Scoring Rules, Interpretations, Recommendations.
   - Section panel: accordion to add/edit sections and questions inline.
3. **Public Test Page**:
   - Clean header with test title/description.
   - Progress bar at top; one question per view or grouped by section.
   - Next/Previous controls; summary at end.
4. **Results Page**:
   - Section-wise cards showing score & interpretation.
   - Overall summary banner.
   - Recommendations list with icons.
5. **Mobile Responsiveness**:
   - Collapsible nav; swipe-enabled question navigation; sticky footer for controls.

6. Tech Stack

- Backend: Spring Boot / Node.js

- Frontend: ReactJS

- DB: MySQL / PostgreSQL

- Auth: JWT