

Functional Requirements Specification (FRS) Document

Project Title: DODO Platform

Company: QuantumNique Tech

Document Version: 1.0

Date: June 23, 2025

1. Introduction

1.1 Purpose:

The purpose of this document is to define the functional requirements for the "DODO" platform, a web-based platform designed for educational testing, assessment, and interactive challenges.

1.2 Scope:

DODO is an online system that supports user registration, test creation, interactive quizzes, result analytics, and admin management. It is targeted towards students, educators, and organizations aiming to assess knowledge and skills.

1.3 Intended Audience:

- Product Managers
- Development Team
- QA/Testers
- Stakeholders

1.4 Definitions and Acronyms:

- UI: User Interface
- DB: Database
- FRS: Functional Requirements Specification

2. System Overview

The DODO platform consists of three major components:

- Frontend Web Interface: For students and admin interaction
- Backend Server: Handles business logic and database interactions
- Database Layer: Manages all user, assessment, and performance data

3. Functional Requirements

3.1 User Registration and Authentication

- Users can register using email and password
- Users can login and logout
- Password reset functionality

3.2 User Roles and Permissions

- Admin: Manage users, tests, and view analytics
- Student/User: Take tests, view results, participate in challenges

3.3 Dashboard

- User dashboard showing recent tests, scores, and progress
- Admin dashboard with user metrics and test management options

3.4 Test Creation and Management

- Admin can create, edit, delete tests
- Multiple types of questions supported (MCQ, True/False, Short Answer)

3.5 Quiz Participation

- Students can attempt quizzes within a time limit
- Questions shown one at a time
- Progress indicator and submit button

3.6 Leaderboard and Challenges

- Real-time leaderboard during challenges
- Challenge modes with scoring criteria

3.7 Reports and Analytics

- Students can view past performance reports
- Admin can export user result data in CSV

3.8 Notifications

- Email alerts for test assignments and results

4. Non-Functional Requirements

- Performance: System should handle 1,000 concurrent users
- Security: Encrypted passwords, secure API access, role-based access
- Scalability: System must be scalable to add more users and test types
- Availability: 99.9% uptime with fallback on server failure

5. Assumptions and Constraints

System will be accessed via modern web browsers
Hosted on cloud infrastructure (e.g., AWS, Azure)
Users must have stable internet access

6. Future Scope

Integration with third-party LMS
Mobile app support
AI-driven test recommendations

7. Approval

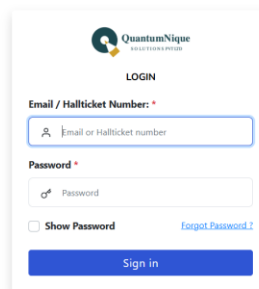
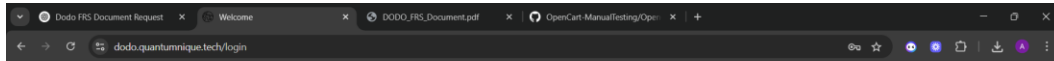
Name	Role	Signature	Date
[Your Name]	Product Manager		2025-06-23
[Dev Lead]	Development Lead		
[QA Lead]	QA/Test Engineer		

End of Document

Updated Functional Requirements with Screenshots

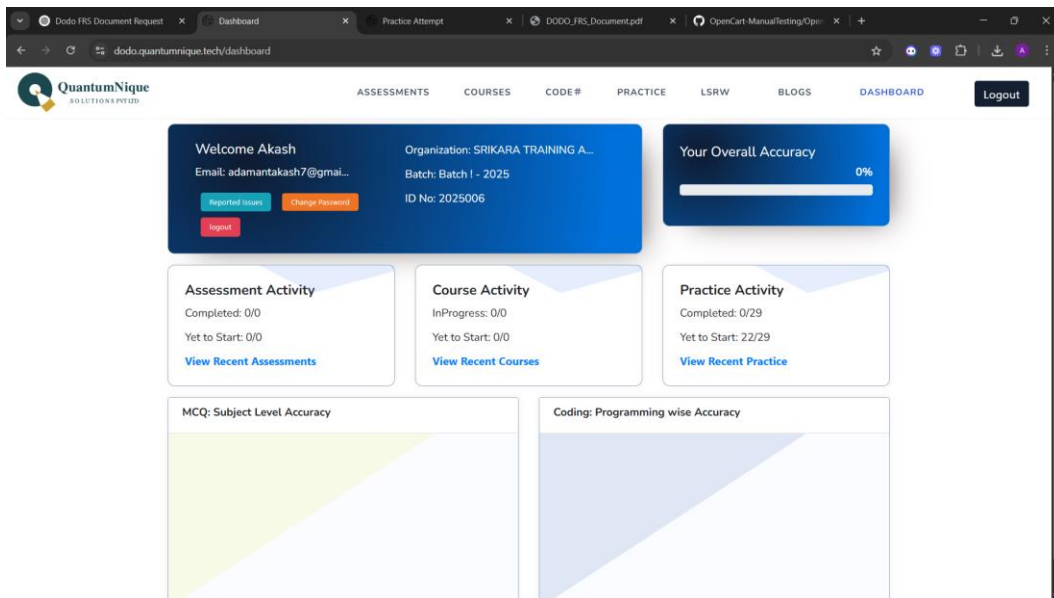
3.1 User Registration and Authentication

- Users can log in using email or hall ticket number and password.
- Login interface has 'Show Password' and 'Forgot Password?' features.



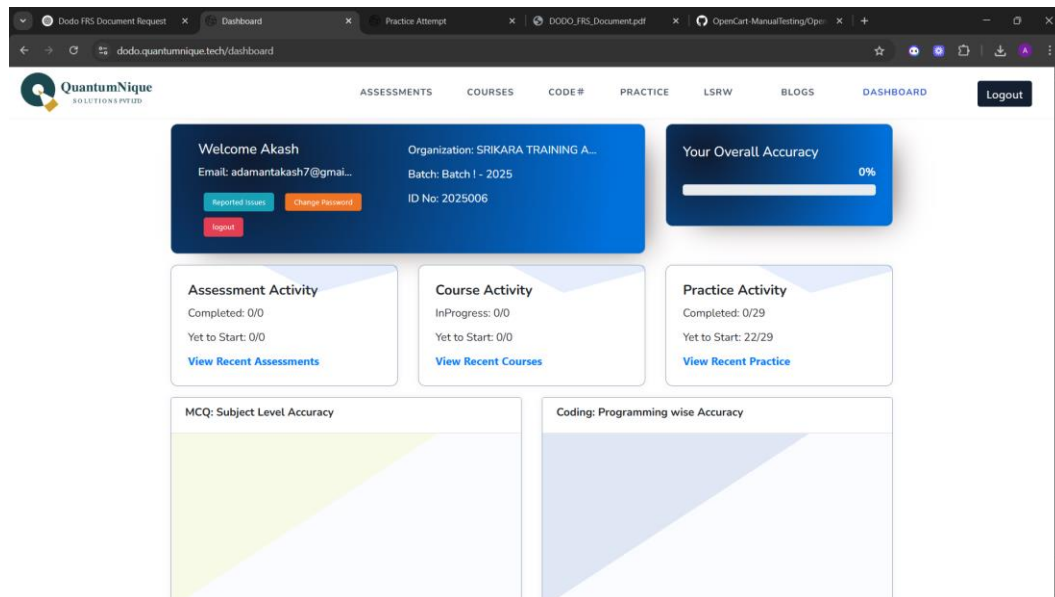
3.2 User Roles and Permissions

- Admin: Manages users, courses, tests, analytics
- Students: Practice, view dashboard, attempt tests



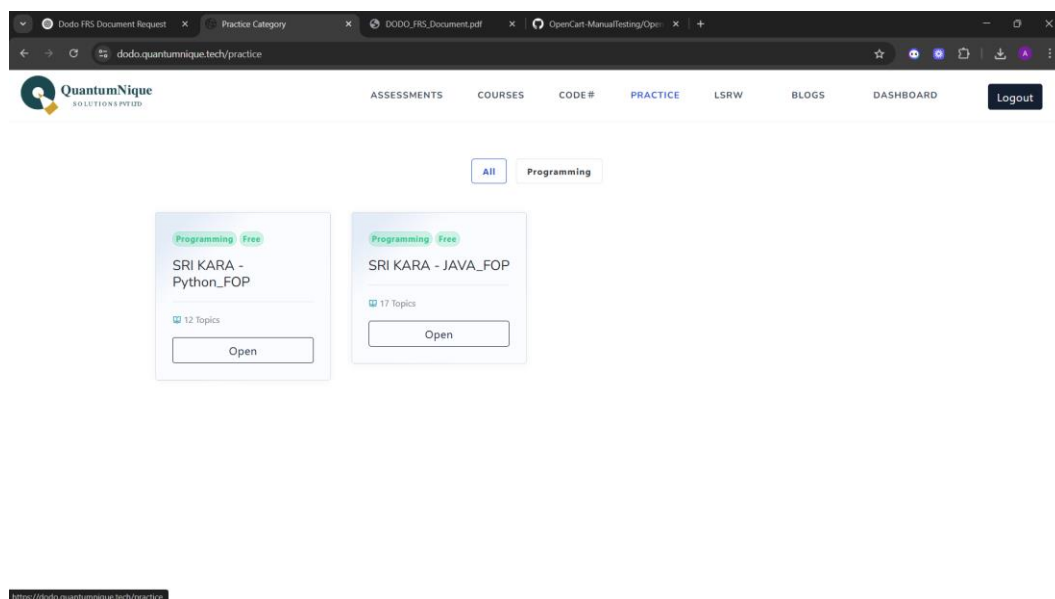
3.3 Dashboard

- Displays course activity, practice history, assessment status, and user info.
- Shows student email, batch, and ID prominently.



3.4 Test Creation and Management

- Admin can create and configure test content.
- Various test categories such as Python_FOP and Java_FOP.



3.5 Quiz Participation

- Questions are shown one at a time with a timer and coding space.
- Inputs, expected output, and result (pass/fail) shown clearly.
- Language selection available before code run.

The screenshot shows the QuantumNique Practice Test interface. The top navigation bar includes links for ASSESSMENTS, COURSES, CODE #, PRACTICE, LSRW, BLOGS, and DASHBOARD, along with a Logout button. The main content area displays a practice test for Question 9/10, titled "Dhoni's Confident Reply!!!". The question text describes a scenario where Mr. Banerjee is asked if he will be a wicketkeeper, and Dhoni's confident reply is "I will if I get a chance". The task is to write a program to display the answers of Dhoni that impressed his master. The input and output format is specified as "Refer Sample input and output for formatting specifications." The constraints are listed as "NA". An example input is provided: "Banerjee's Question: Will You be a wicketkeeper? Dhoni's Reply: I Will if I get a chance". The output is shown as "Failed". The progress bar indicates 90% completion. On the right, a summary of the test shows 10 questions, 83% accuracy, 35 testcases, 29 correct answers, and 6 wrong answers.

3.6 Leaderboard and Challenges

- A visual accuracy meter and progress bar during the test.
- Displays question stats (attempted, correct, wrong).

This screenshot is identical to the one above, showing the QuantumNique Practice Test interface for Question 9/10. It details the question about Dhoni's reply, the input/output format, constraints, and the test results summary on the right, including a progress bar at 90% and a bar chart showing 10 questions with 83% accuracy.

3.7 Reports and Analytics

- Students can view coding accuracy, attempts, and detailed test reports.
- Graphical representation of progress provided.

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ASSESSMENTS COURSES CODE # PRACTICE LSRW BLOGS DASHBOARD

Logout

Practice Test

00:18:03

Report Progress 90%

Q9

-- Select Language --

Run Code Submit Code

Question 9/ 10

Dhoni's Confident Reply!!!

After Dhoni made it to the pinnacle of Success as Indian Captain, Mr. Banerjee was once invited by the Media to recall his association with Dhoni. Mr. Banerjee quoted one important moment that complemented the traits of Dhoni. It was when he approached Dhoni and asked him if he would play cricket for the school team saying "Will you be a wicketkeeper?" and was taken aback by Dhoni's confident reply "I will if I get a chance". Write a program to display the answers of Dhoni that impressed his master.

Input and Output Format:
Refer Sample input and output for formatting specifications.

Constraints:

NA

Example:

Sample Input:
Banerjee's Question:
Banerjee's Reply: I will if I get a chance

Prev Next

Output Custom Input Correct Code

#	INPUT	EXPECTED OUTPUT	YOUR OUTPUT	STATUS
TC 1			Banerjee's Question:Will You be a wicketkeeper? Dhoni's Reply: I will if I get a chance	Failed

Test

83% Accuracy

Questions: 10
Testcases: 35
Correct: 29
Wrong: 6

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ASSESSMENTS COURSES CODE # PRACTICE LSRW BLOGS DASHBOARD

Logout

Welcome Akash

Email: adamantakash7@gmail...

Reported Issues Change Password Logout

Organization: SRIKARA TRAINING A...

Batch: Batch I - 2025

ID No: 2025006

Your Overall Accuracy 0%

Assessment Activity

Completed: 0/0

Yet to Start: 0/0

View Recent Assessments

Course Activity

InProgress: 0/0

Yet to Start: 0/0

View Recent Courses

Practice Activity

Completed: 0/29

Yet to Start: 22/29

View Recent Practice

MCQ: Subject Level Accuracy

Coding: Programming wise Accuracy