

Software Engineering and Project

Software Design Document

PG5

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1.0

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Version History

Date	Version	Changer	Description
29/09/2019	0.1	Pallavolu Sai Dheeraj Reddy	Finalized section introduction. Waiting for final document review
30/09/2019	0.2	Kalpana Parvathineni	Finalized the Component Design
1/09/2019	0.3	Pallavolu Sai Dheeraj Reddy	Finalized the Human Interface Design
1/09/2019	0.4	Pallavolu Sai Dheeraj Reddy	Merged three sections into smooth report, organized structure
1/09/2019	0.5	Kalpana Parvathineni	Modify and added the images
2/09/2019	1.0	Pallavolu Sai Dheeraj Reddy	Add flowcharts and Modified

Introduction

Overview

This document primarily introduces the software design of the Hire Me Coder. The main purpose of this document is to deliver a comprehensive and detailed description of the software design of Hire Me Coder. It is expected to produce a baseline for software development as it elaborates the process of building the system and understand the software components are to be built. This document provides necessary information.

Intended audience

This document can be read by all related stakeholders.

All the development team members are intended audiences. This Document can be viewed for all members to comply with design principle and follow the procedure. Moreover, both scope part and process part are helpful for developer to ensure all requirements can meet the expectation of client

Clients from Map tek are audiences of this report. Clients will be interested in all sections of this document they can understand our design document plan of Hire Me Coder.

References

Software Project and Management Plan Draft
Software Design Documents Draft
System Requirement Specification Draft
The interview with clients of project specification

Glossary

Agile Methodology	A software development approach that promotes continues iteration of development and testing throughout the software development life cycle
GitHub	Software Development version control
MapTek	A leading provider of innovative software, hardware and services for the mining industry
Scrum	An agile process framework
Slack	Communication Tool
SPMP	Software Project Management Plan
Trello	Web-based list-making application
QA	Quality Assurance

Components Design

Component Decomposition Description

Login Page:

The login system is used by administrators and interviewees to login into system. It has two mode i.e., admin mode and candidate mode. Admin will manage the test to interviewee, whereas the interviewee will update their task according to their extension file.

Register:

In this the candidate will register the account with their details after registering the details they would receive a link activation to their email account with temporary password.

Link Activation:

The link activation is which authorized by admin and generate the link and send to the candidate the link would have expiration time in limited time. Candidate would click on the link with generated temporary password.

Creating Questionnaire:

Admin would authorize the creating the question for test to the candidate. Admin will release the question in pdf format to candidate.

View Assignment:

Assignment can be viewed by candidate after they receive the link, they can click on it view the assignment.

Uploading Code File:

The candidate would upload the file depends on their extension the question is asked in the question paper. So, candidate need to upload the file this function should co-operate with the link activation.

Human Interface Design

Overview of the User Interface

The user interactive interface includes login page where admin and candidates can login into the account. Whereas the candidate should register their account. After registering the account, the candidate receives an activation link to their personal email. Admin will upload a test questionnaire, and candidate can login and solve the questionnaire and upload the file according to the extension file given.

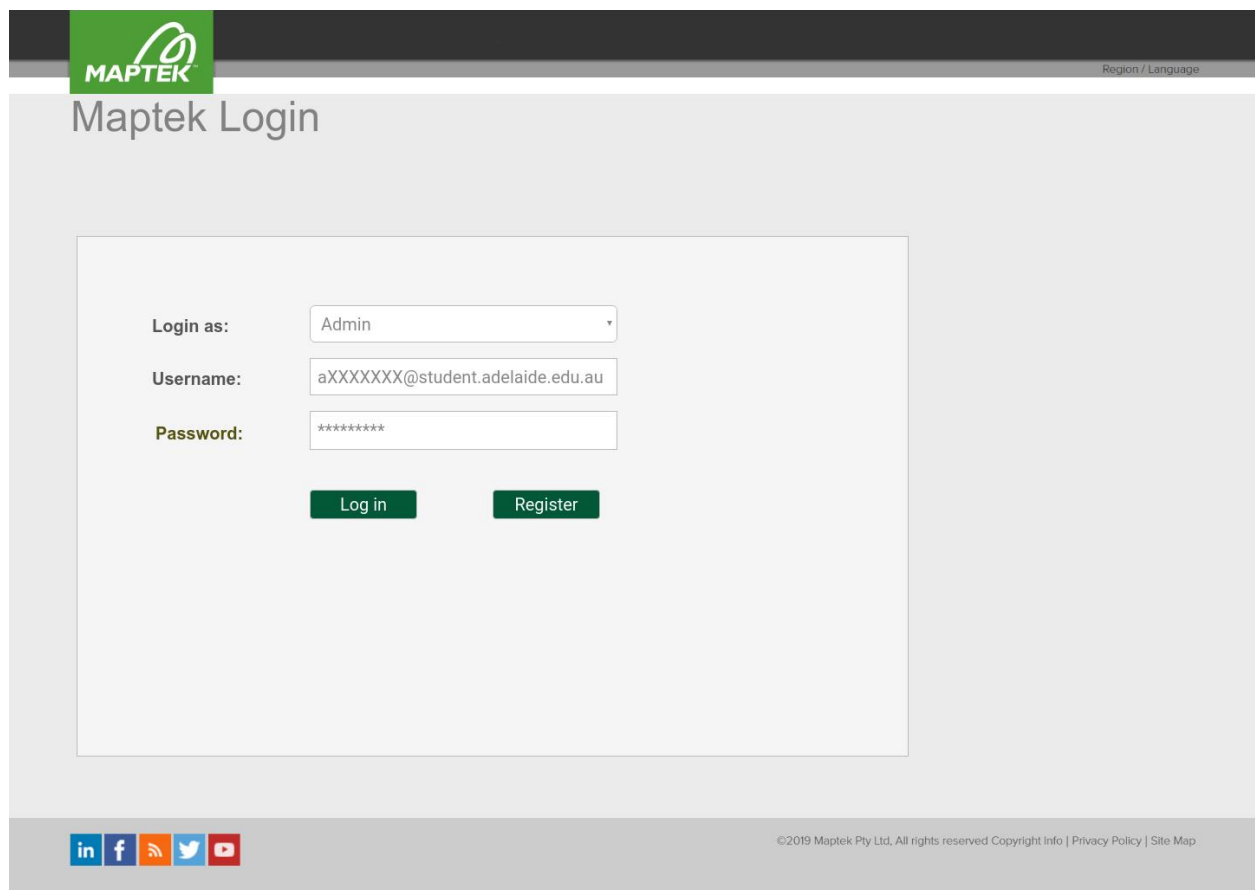


Figure 1 Main Screen of UI

Detailed Design of the User Interface

Admin Page:

This Function only admin can view it, where admin can update the details. Admin can send the test to the candidate, check the coding file of the candidate. And view the database of the assignment for this page

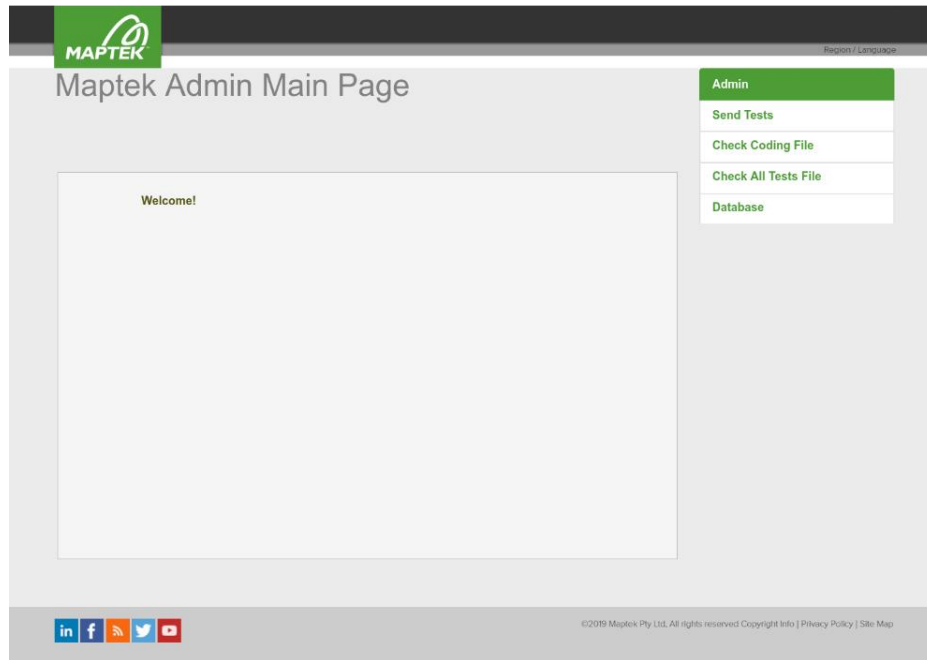


Figure 2 Admin Page

Register Page:

The Candidate can register their details as asked in the register form like name, email, mobile number and some other info. After validating the details candidate can register their account.

Figure 3 Register Page

Candidate Welcome page:

This function is for the Candidate welcome page, where candidate can login with their credentials and can view the test and submit it in online.

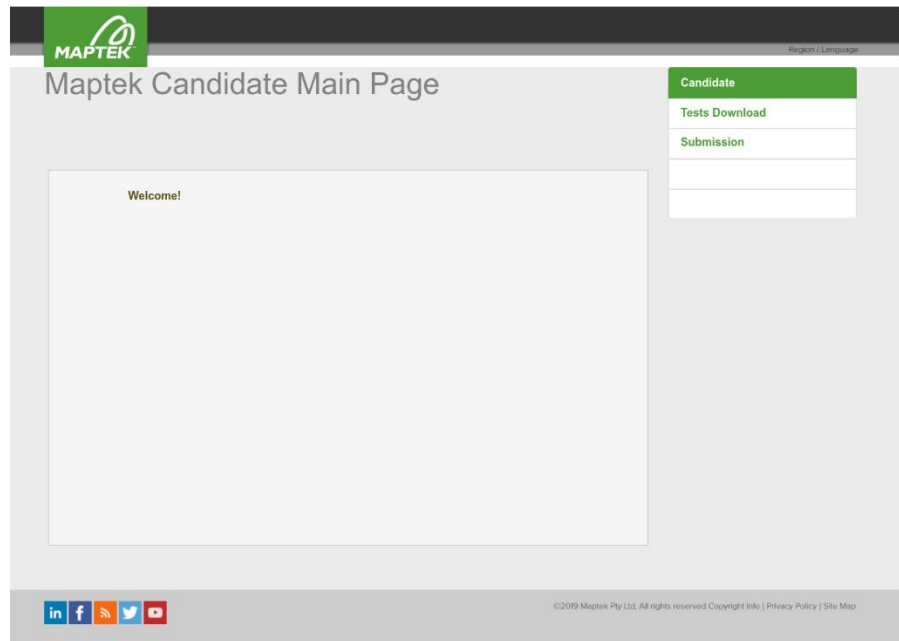


Figure 4 Candidate Welcome page

Send Test:

In this function the Send test is viewed by Admin only. Admin can send the test with the attached file to candidate.

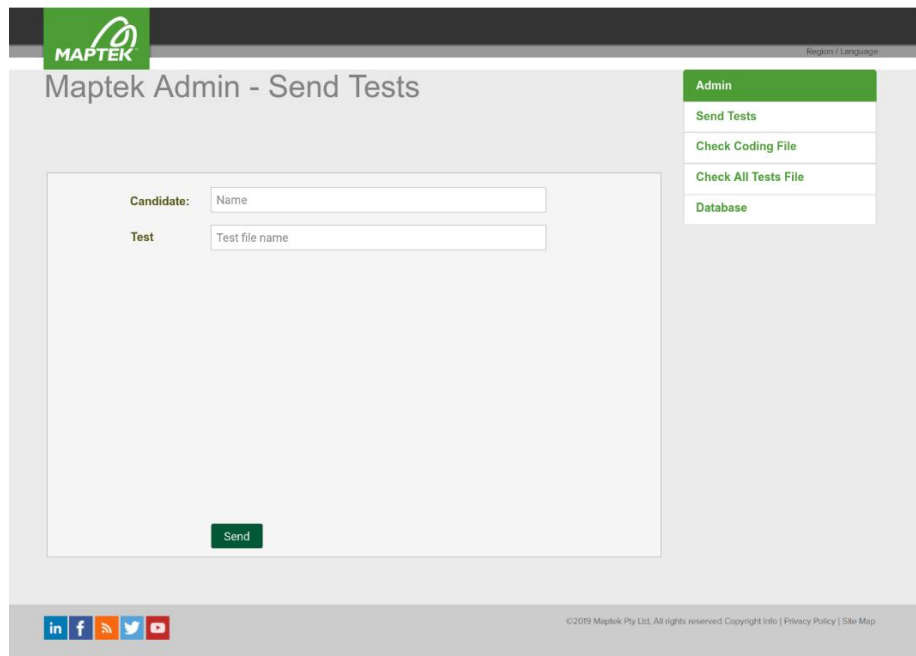


Figure 5 Send Test page

Checking Code File:

This function is handled by the admin user only because the admin can view the code file whether the candidate has uploaded the file or not.

MAPTEK

Region / Language

Maptek Admin - Check Coding File

Candidate:

[Confirm](#)

[Admin](#)
[Send Tests](#)
[Check Coding File](#)
[Check All Tests File](#)
[Database](#)

[in](#) [f](#) [s](#) [t](#) [v](#)

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Figure 6 Checking code file page

Candidate Test File:

This is function is viewed by the admin user only the admin can check the file whether the candidate has done in correct format.

MAPTEK

Region / Language

Maptek Admin - Check Coding File

Candidate: Taylor Swift

Submission: Main.java [Check Compilability](#) [Approve](#)

[Admin](#)
[Send Tests](#)
[Check Coding File](#)
[Check All Tests File](#)
[Database](#)

[in](#) [f](#) [s](#) [t](#) [v](#)

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Figure 7 Candidate Test File Page

Check All File:

This function is viewed by the admin user, can check all the files of all the candidate whoever has submitted their test.

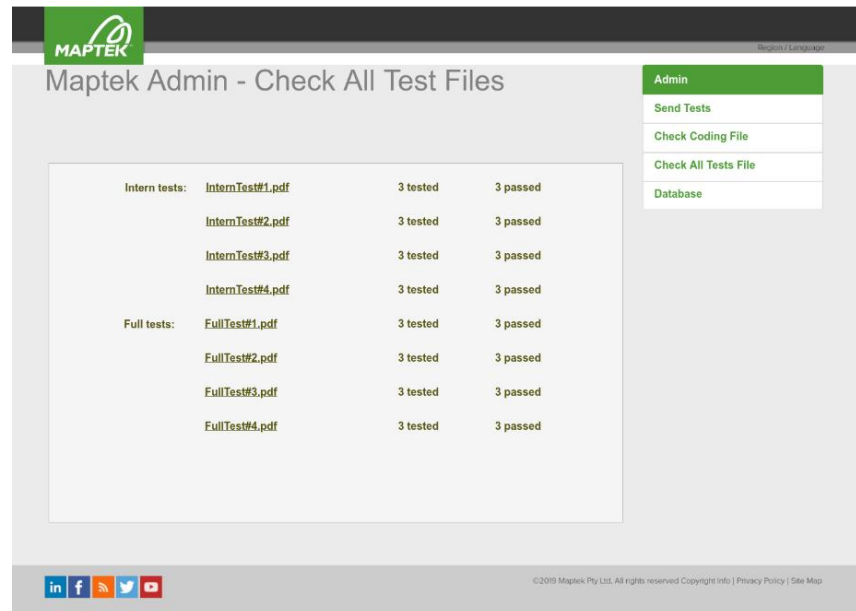


Figure 8 Check all file page

Submission:

This Function is viewed in candidate page. Candidate can submit the test file uploading according to their extension file.

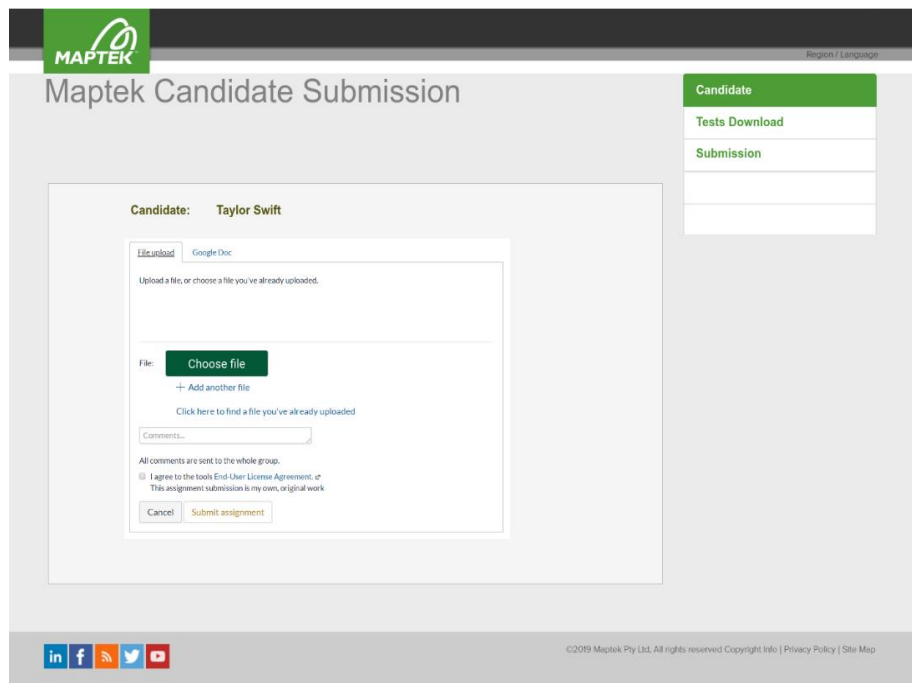


Figure 9 Submission

Appendix A

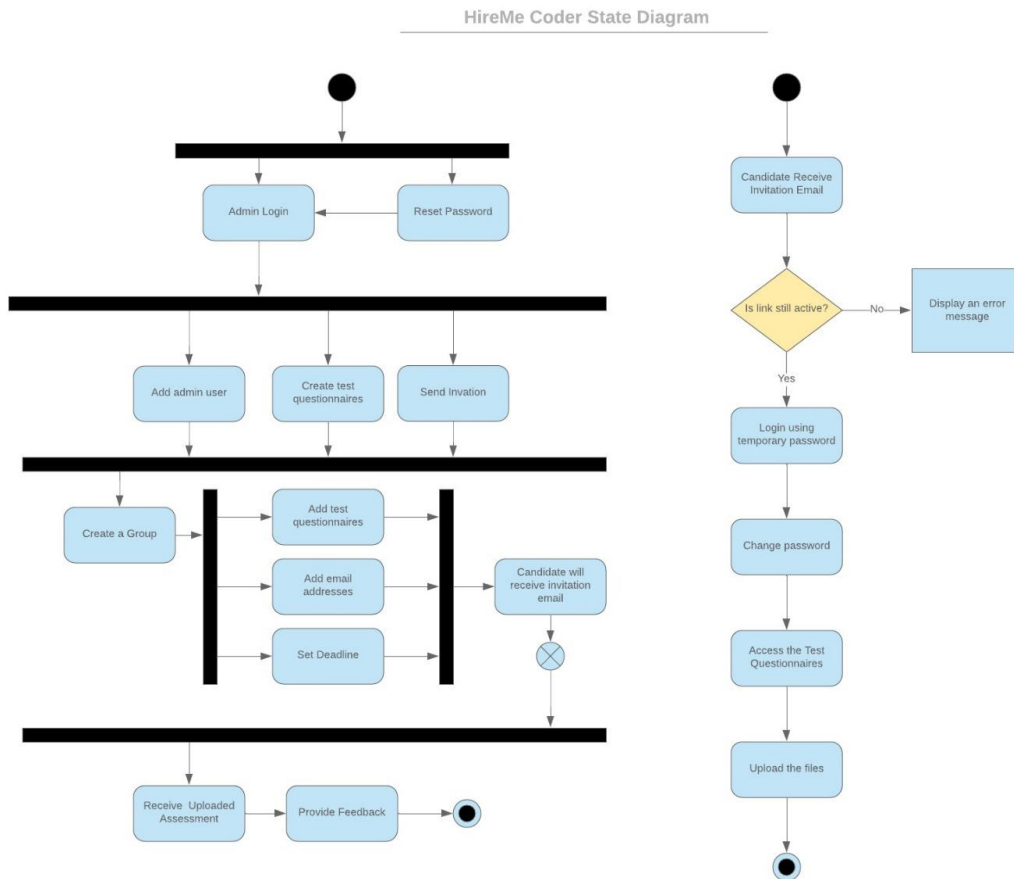


Figure 10 State Diagram of Hire Me Coder

Figure 1 Main Screen of UI

Figure 2 Admin Page

Figure 3 Register Page

Figure 4 Candidate Welcome Page

Figure 5 Send Test page

Figure 6 Checking code file page

Figure 7 Candidate Test File Page

Figure 8 Check all file page

Figure 9 Submission

Figure 10 State Diagram of Hire Me Coder