

Online Aptitude Test

Supervisor: *LÊ THANH NHÂN*

Semester: *III*

Batch No: *T1.2208.M2*

Group No: *5*

Order:	Full name	Roll No.
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Month: 12 Year: 2023

This is to certify that

Mr. VÕ MINH TIẾN

Mr. HUỖNH HỮU KHA

Mr. NGUYỄN MẠNH CHIẾN

Have successfully Designed & Developed

Online Aptitude Test

Submitted by:

Mr. LE THANH NHAN

Date Of Issue:

Authorized Signature:

Content

Content	3
Acknowledge	4
Synopsis	5
Review 1	6
Review 2	14
Review 3	34
Testing Document	47
Final Checklist	48
Task Sheet	49

Acknowledge

In the process of graduation, we have received a lot of help, suggestions, and enthusiastic advice from our teachers, family and friends. We sincerely thank Aptech Education for bringing the experience as well as practical skills in the project that have brought our skills to a higher level.

We would like to extend our heartfelt thanks to Mr. Le Thanh Nhan, a teacher of FPT Aptech for always being dedicated and professional. His mentoring and technical expertise has Without the knowledge and experience of our superior that has guided us throughout the entire process, this project wouldn't have succeeded.

I, Vo Minh Tien, as the group leader, am immensely grateful to the entire team for their hard work and dedication. Each team member's unique contributions have collectively led to the realisation of our goals. Your collaborative spirit and tireless efforts have made this project a truly rewarding experience.

And we sincerely thank the families and friends of our team members for their great enthusiasm and support during the project and providing us with time and space to focus on our Project.

Thank you all for being an integral part of this journey. Your contributions have made this project a success, and I am truly grateful for the collaborative effort that has brought our project to life.

Synopsis

The Objective of this program is to give a sample project to work on real life projects.

These applications help you build a larger more robust application.

The objective is not to teach you the software's but to provide you with a real life scenario and help you create basic applications using the tools.

You can revise the topics before you start with the project.

These programs should be done in the Lab sessions with assistance of the faculty if required.

It is very essential that a student has a clear understanding of the subject.

Kindly get back to eProjects Team in case of any doubts regarding the application or its objectives.

Review 01

Design Plan: Online Aptitude Test	Document Name: Problem Definition	SWD/Form No.01/PD/Ver1.0
Effective Date: 11/12/2023	Version 4.0	Page No: 2 of 56

Problem Definition

INTRODUCTION

The Webster organisation is one of the leading organisations in the world of Oil-Gas companies. They have various branches throughout the world. It has various bonds with different multinational companies. The company wants an application to be built for the jobseeker where the entire candidate as per the criteria will appear for the online test and based on the result of this the candidate will go for further rounds.

They have requested us to create a web application using the latest technology that is .NET 8, C# language, using ASP.NET Core MVC. The Database we will use SSMS for local use and deployed using Azure. Team will be using Github and Azure Devops to manage the development.

As part of the company's recruitment process, there is a need to implement an efficient and user-friendly Online Aptitude Test for evaluating the skills and capabilities of prospective candidates. The current manual assessment process is time-consuming, prone to errors, and lacks scalability, hindering the seamless identification of top-tier talent.

Client has forwarded all the data that they have required in the application, which is stated below:

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Design Plan: Online Aptitude Test	Document Name: Problem Definition	SWD/Form No.01/PD/Ver1.0
Effective Date: 11/12/2023	Version 4.0	Page No: 3 of 56

The application should perform the following functions:

URL should be <https://websterapplicantexam.com>.

Page requirements:

- Main page (Login page)
- Applicant:
 - Dashboard
 - Exam page
 - Result page
 - Logout
- Manager:
 - Dashboard
 - View Applicant
 - Create/Edit Applicant
 - View Report
 - View Questions
 - Add/Edit Questions

1. Login page should contain 2 types of logins: one for Applicant, one for Manager.
2. Applicant dashboard should contain 3 links to exam, only first one is available and accessible.

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Design Plan: Online Aptitude Test	Document Name: Problem Definition	SWD/Form No.01/PD/Ver1.0
Effective Date: 11/12/2023	Version 4.0	Page No: 4 of 56

3. Applicant exam should start at the scheduled time, containing 5 questions randomized from the Manager's question list and automatically submitted when time runs out, else they can choose to submit early and move on to the next Exam.
4. Results screen should show when they are done with all 3 Exams, calculating the total score from all the answered questions and pop-up "You have passed this round, next is the HR round" if the score is satisfactory. Then logout out of the session.
5. Manager dashboard should show all functions of the Manager such as: View Applicants, View Questions, Add/Edit Applicants, Add/Edit Questions, View Report.
6. View Applicants should show the list of Applicants, filterable by Name, other Details, or score if necessary. Allow Manager to click on Applicant to go into edit page or click on "Submit New Applicant" to go to Add Applicant page.
7. View Questions should show the list of Questions, Exam Type of question, links to Add and Edit / Delete Questions.
8. Add/Edit Applicants should show input boxes for all Applicant Details and a button to Save.
9. Add/Edit Questions should show input boxes for all Applicant Details and a button to Save.
10. Applicant and Manager navigation bar should show link to Logout

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Design Plan: Online Aptitude Test	Document Name: Customer Requirements Specifications	SWD/Form No.02/CRS/Ver1.0
Effective Date: 11/12/2023	Version 4.0	Page No: 5 of 56

Customer Requirements Specifications

- **MANAGER:**

Input:

- Enter the details of the candidates appearing for the interview. Details to be maintained are Education details, Personal details, Work Experience
- Allocate the Username and Password for the candidates.
- Edit, update, add, save, delete the test Questions
- Filtering info such as Reports, passed Candidates, question types

Process:

- Handle saving Candidate, Questions
- Handle setting Candidate Usernames and Passwords
- Handling setting and saving Questions
- Generating Report based on user input filters

Output:

- View the list of all the candidates who are or have appeared along with the result (if achieved).
- View info of specific Candidates

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Design Plan: Online Aptitude Test	Document Name: Customer Requirements Specifications	SWD/Form No.02/CRS/Ver1.0
Effective Date: 11/12/2023	Version 4.0	Page No: 6 of 56

- View report statistics. Report section must be added for viewing the generalised data which can be filtered by date, week or month.
- View info of Questions used in the Exam.

● **CANDIDATE:**

Input:

- Each candidate will have their login details provided to them by the Manager. These details must be entered in the candidate's login section.
- Clicking on the first Exam in the Dashboard
- Answering the Questions
- Submitting the Exam
- Logging out after finishing the Exam

Process:

- Calculate the Exam score
- Handle time limit for the Exams
- Handle validation to prevent Candidates from going back to finished Exams.
- If the candidate passes the test, then their names are transferred for the next (HR) round, their data transferring to a new table to be referred to by concerned persons
- Handle logout after finishing the test and showing Results.

Output:

- Viewing List of Exams

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Effective Date: 11/12/2023	Version 4.0	Page No: 7 of 56

- Viewing List of Questions
- Viewing Results Page

Hardware / software requirement

1.	System	Windows 10 or above
2.	Software	Visual Studio 2019 or later, SQL Server 2000 (or later)
3.	Web Browser	Later versions of Edge, Chrome, Firefox, etc...
4.	Fonts	Standard fonts such as Unicode: Arial, Tahoma, Lucida Console, Times New Roman, etc...
5.	Other requirements	A working internet connection.

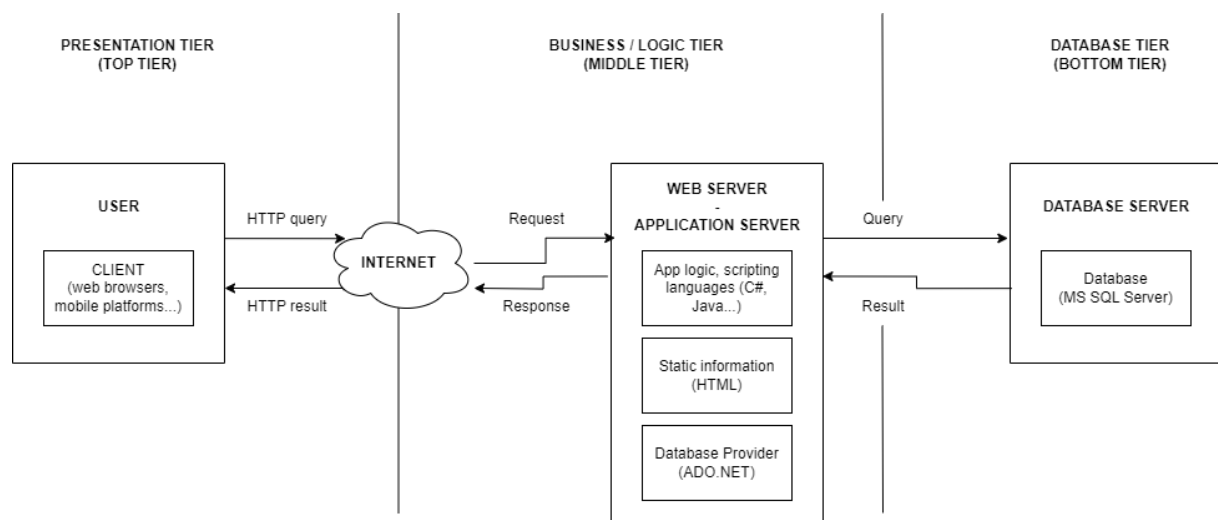
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Review 02

Design Plan: Online Aptitude Test	Document Name: Architecture and Design of the Project	SWD/Form No.03/ARD/Ver1.0
Effective Date: 11/12/2023	Version 4.0	Page No: 9 of 56

Architecture and Design of the Project

We will be using 3-tier architecture for this project:



The User will interact with the Front-end of the webpage, then the user Input will be sent as a request to the Web Server containing the App logic, Database and File System. It will handle all the required tasks and will return to the User the expected output on the View. An explanation for all three tiers are below:

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Design Plan: Online Aptitude Test	Document Name: Architecture and Design of the Project	SWD/Form No.03/ARD/Ver1.0
Effective Date: 11/12/2023	Version 4.0	Page No: 10 of 56

Presentation tier:

This is the topmost level of the application. It is a layer that users can access directly (such as a web page, or an app's GUI). This is the Front-end of our project where the user can view and interact with the web app.

Business / Logic tier:

The business tier is pulled out from the presentation tier and controls an application's functionality by performing detailed processing. Through the web server, the request from the user will be handled by the app logic and will return to the presentation tier where the results are displayed to the end-user.

Database tier:

The database tier includes the data mechanisms (database servers, file shares, etc.) and the data access layer that encapsulates the data mechanisms and exposes the data for processing. The data access layer should provide an API to the application tier that helps manage and process the data. This is the Database of our application where we will get the data to handle tasks in the business tier.

We will be using ASP.NET Core MVC for this Application, it is explained as below:

1. Model:

- The Model represents the core business logic and data of the application. In the case of the aptitude test application, the Model would handle tasks such as:

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Design Plan: Online Aptitude Test	Document Name: Architecture and Design of the Project	SWD/Form No.03/ARD/Ver1.0
Effective Date: 11/12/2023	Version 4.0	Page No: 11 of 56

- Storing and managing candidate data.
- Defining the structure of the aptitude tests, including questions, answers, and correct solutions.
- Handling scoring and result calculations.
- Managing communication with the database for persistent data storage.

2. **View:**

- The View is responsible for presenting the user interface to the applicants and displaying information from the Model. For the aptitude test application, the View would include:
 - UI for Applicants to take the aptitude test.
 - Feedback on test results.
 - UI for Managers to view reports and analytics.

3. **Controller:**

- The Controller acts as an intermediary between the Model and the View. It receives user inputs from the View, processes them, and updates the Model accordingly. The Controller handles:
 - Handling user interactions during the test, such as submitting answers or navigating through questions.

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Design Plan: Online Aptitude Test	Document Name: Architecture and Design of the Project	SWD/Form No.03/ARD/Ver1.0
Effective Date: 11/12/2023	Version 4.0	Page No: 12 of 56

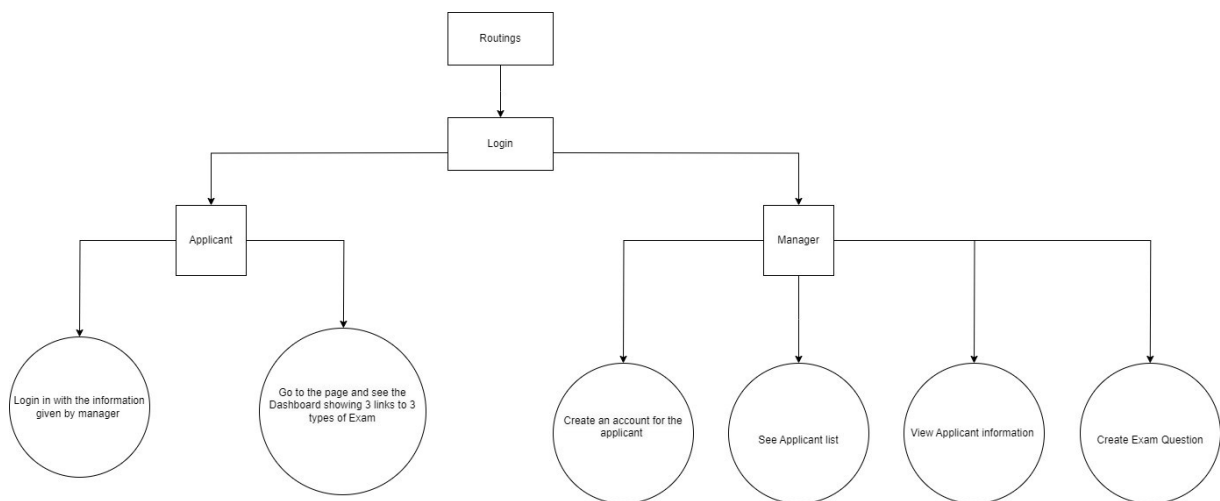
- Initiating actions based on user inputs, like starting or ending a test.
- Updating the Model with the results of the aptitude test.
- Managing the flow of the application and controlling the navigation between different views.

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Design Plan: Online Aptitude Test	Document Name: Data Flow Diagram	SWD/Form No.04/DFD/Ver1.0
Effective Date: 11/12/2023	Version 4.0	Page No: 13 of 56

Data Flow Diagram

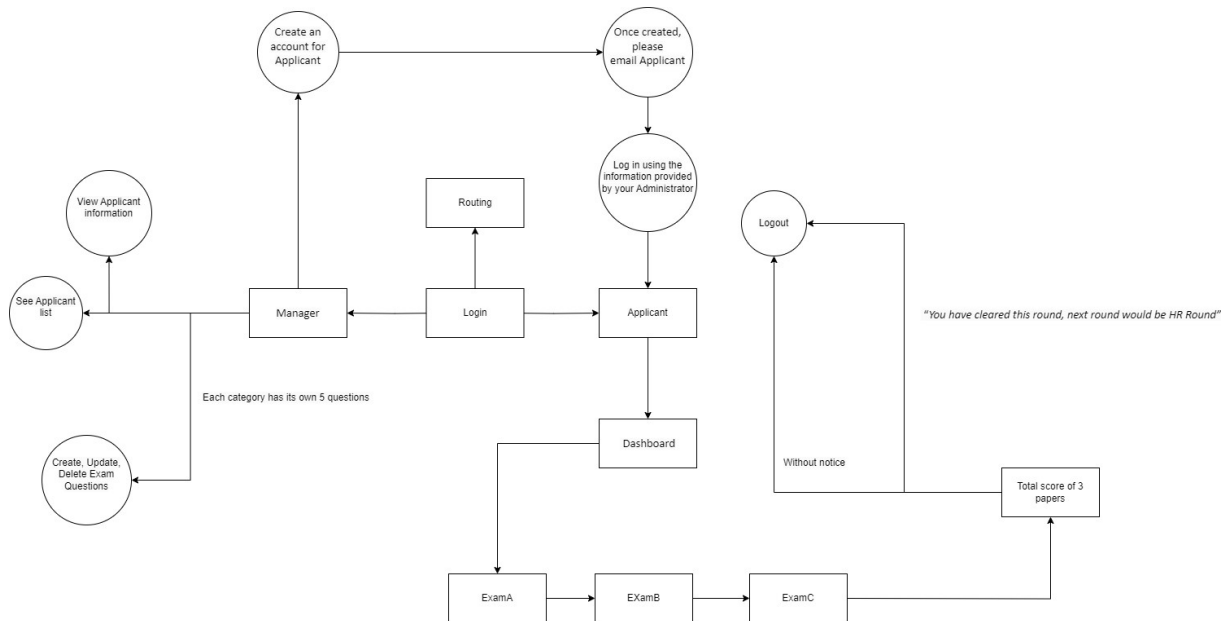
DFD Level 0:



DFD Level 1:

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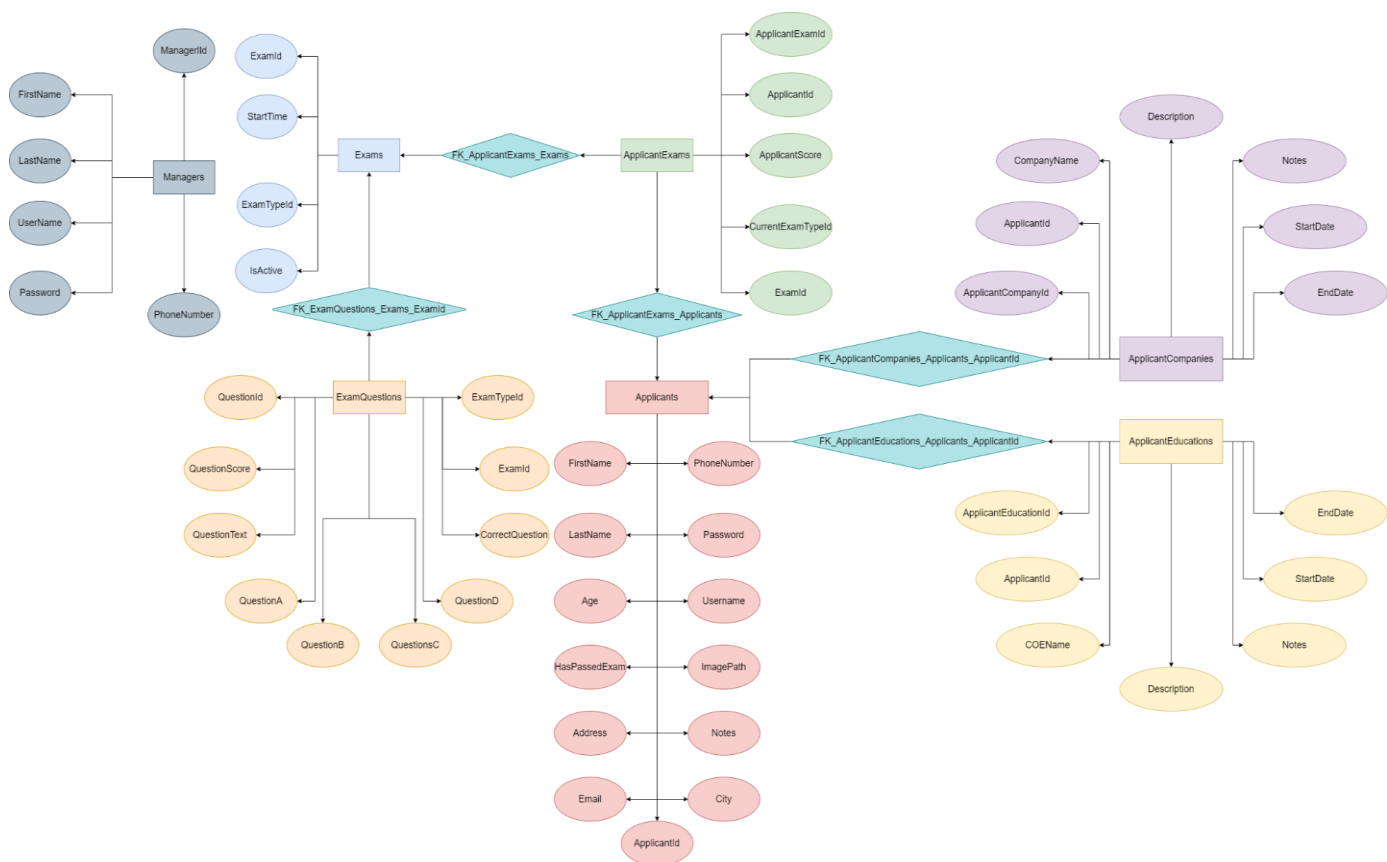
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Effective Date: 11/12/2023	Version 4.0	Page No: 14 of 56



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Design Plan: Online Aptitude Test	Document Name: Entity Relationship Diagram	SWD/Form No.05/ERD/Ver1.0
Effective Date: 11/12/2023	Version 4.0	Page No: 15 of 56

Entity Relationship (ER) Diagram



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Design Plan: Online Aptitude Test	Document Name: Table Design	SWD/Form No.06/TAB/Ver1.0
Effective Date: 11/12/2023	Version 4.0	Page No: 16 of 56

A. Table Design

The Table Design is defined below:

1. ApplicantCompanies

ApplicantCompanies				
	Field name	Data type	Key/Constraint	Description
1	ApplicantCompanyId	int	PK	Stores the id of the Applicant Companies
2	ApplicantId	uniqueidentifier	FK	Stores the Applicant Id
3	CompanyName	nvarchar(255)		Stores the Company Name
4	Description	nvarchar(255)		Stores the Description
5	Notes	nvarchar(3000)		Stores the Notes
6	StartDate	datetime2(7)		Stores the Start Date of the Applicant's tenure here
7	EndDate	datetime2(7)		Stores the End Date of the Applicant's tenure here

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Design Plan: Online Aptitude Test	Document Name: Table Design	SWD/Form No.06/TAB/Ver1.0
Effective Date: 11/12/2023	Version 4.0	Page No: 17 of 56

2. ApplicantEducations

ApplicantEducations				
	Field name	Data type	Key/Constraint	Description
1	ApplicantEducationId	int	PK	Stores the id of the
2	ApplicantId	uniqueidentifier	FK	Stores the ApplicantId
3	COEName	nvarchar(255)		Stores the name of the Center of Education
4	Description	nvarchar(2000)		Stores the Description
5	Notes	nvarchar(3000)		Stores the Notes
6	StartDate	datetime2(7)		Stores the Start Date of the Applicant's tenure here
7	EndDate	datetime2(7)		Stores the End Date of the Applicant's tenure here

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Design Plan: Online Aptitude Test	Document Name: Table Design	SWD/Form No.06/TAB/Ver1.0
Effective Date: 11/12/2023	Version 4.0	Page No: 18 of 56

3. ApplicantExams

ApplicantExams

ApplicantExams				
	Field name	Data type	Key/Constraint	Description
1	ApplicantExamId	int	PK	Stores the id of the ApplicantExam
2	ApplicantId	uniqueidentifier	FK	Stores the ApplicantId
3	ApplicantScore	int		Stores the Applicant Score
4	CurrentExamTypeId	int		Stores the Current Exam Type
5	ExamId	int	FK	Stores the current in progress Exam

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Design Plan: Online Aptitude Test	Document Name: Table Design	SWD/Form No.06/TAB/Ver1.0
Effective Date: 11/12/2023	Version 4.0	Page No: 19 of 56

4. Applicants

Applicants				
	Field name	Data type	Key/Constraint	Description
1	ApplicantId	uniqueidentifier	PK	Stores the id of the
2	FirstName	nvarchar(255)		Stores the Applicant's First Name
3	LastName	nvarchar(255)		Stores the Applicant's Last Name
4	Age	int		Stores the Applicant's Age
5	HasPassedExam	bit		Stores the Applicant's HasPassedExam
6	Address	nvarchar(255)		Stores the Applicant's Address
7	Email	nvarchar(255)		Stores the Applicant's Email
8	City	nvarchar(255)		Stores the Applicant's City
9	Notes	nvarchar(3000)		Stores the Applicant's Notes
10	ImagePath	nvarchar(MAX)		Stores the Applicant's ImagePath
11	Username	nvarchar(512)		Stores the Applicant's Username
12	Password	nvarchar(512)		Stores the Applicant's Password
13	PhoneNumber	nvarchar(255)		Stores the

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Design Plan: Online Aptitude Test	Document Name: Table Design	SWD/Form No.06/TAB/Ver1.0
Effective Date: 11/12/2023	Version 4.0	Page No: 20 of 56

5. ExamQuestions

ExamQuestions				
	Field name	Data type	Key/Constraint	Description
1	QuestionId	int	PK	Stores the id of the Question
2	QuestionScore	int		Stores the Question Score
3	QuestionText	nvarchar(3000)		Stores the Question Text
4	QuestionA	nvarchar(512)		Stores Question number 1
5	QuestionB	nvarchar(512)		Stores Question number 2
6	QuestionC	nvarchar(512)		Stores Question number 3
7	QuestionD	nvarchar(512)		Stores Question number 4
8	CorrectQuestion	nvarchar(512)		Stores the Correct Question
9	ExamId	int	FK	Stores the Exam using these Questions
10	ExamTypeId	int	FK	Stores the Exam Type of these questions

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Design Plan: Online Aptitude Test	Document Name: Table Design	SWD/Form No.06/TAB/Ver1.0
Effective Date: 11/12/2023	Version 4.0	Page No: 21 of 56

6. Exams

Exams				
	Field name	Data type	Key/Constraint	Description
1	ExamId	int	PK	Stores the id of the Exam
2	StartTime	datetime2(7)		Stores the Start Time of the exam
3	ExamTypeId	int	FK	Stores the Exam Type
4	IsActive	bit		Stores the Activeness of the Exam

7. Managers

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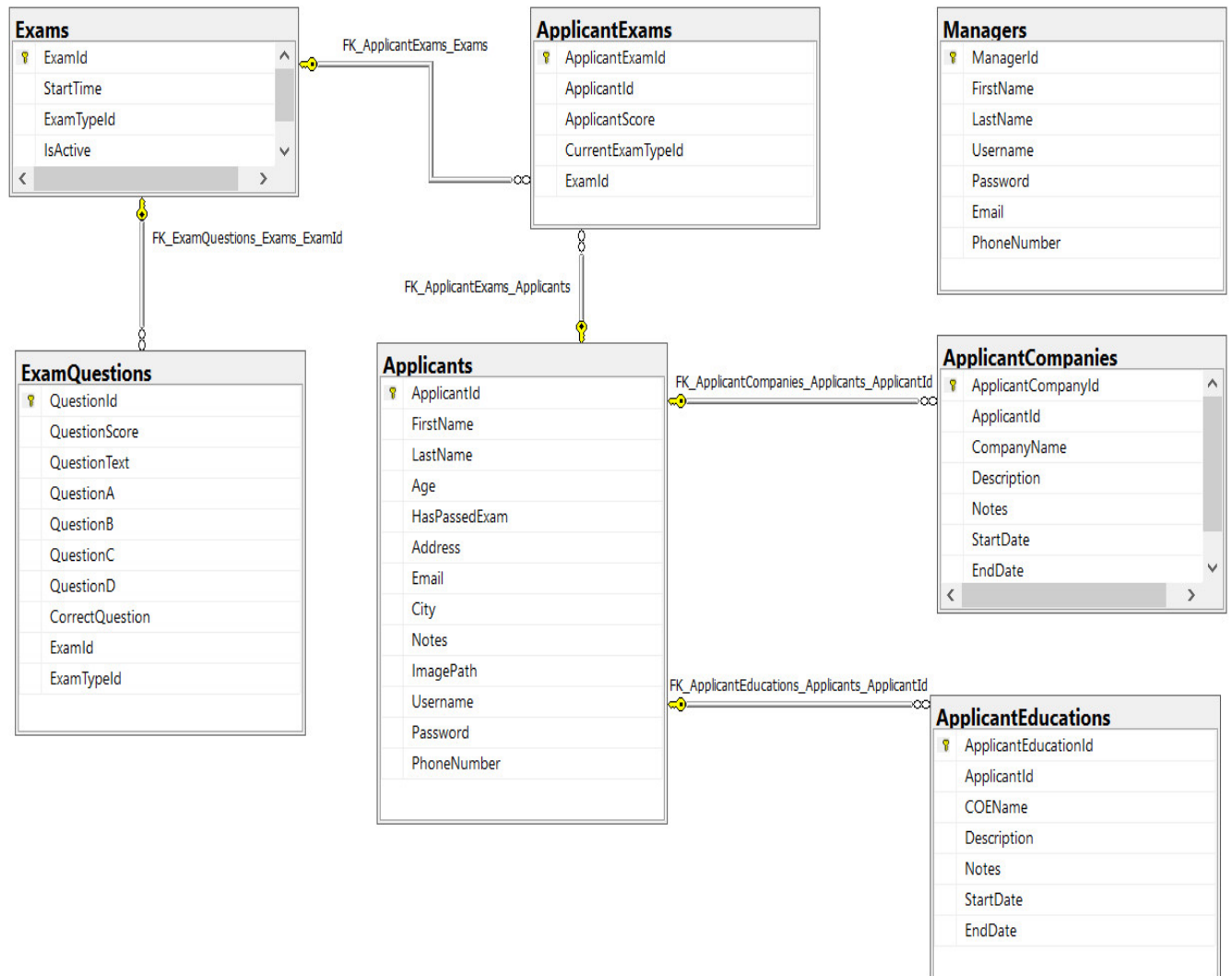
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Effective Date: 11/12/2023	Version 4.0	Page No: 22 of 56

Managers				
	Field name	Data type	Key/Constraint	Description
1	ManagerId	uniqueidentifier	PK	Stores the Manager Id
2	FirstName	nvarchar(255)		Stores the FirstName of the Manager
3	LastName	nvarchar(255)		Stores the LastName of the Manager
4	Username	nvarchar(512)		Stores the Username of the Manager
5	Password	nvarchar(512)		Stores the Password of the Manager
6	Email	nvarchar(255)		Stores the Email of the Manager
7	PhoneNumber	nvarchar(255)		Stores the FirstName of the Manager

B. Relationship Diagram

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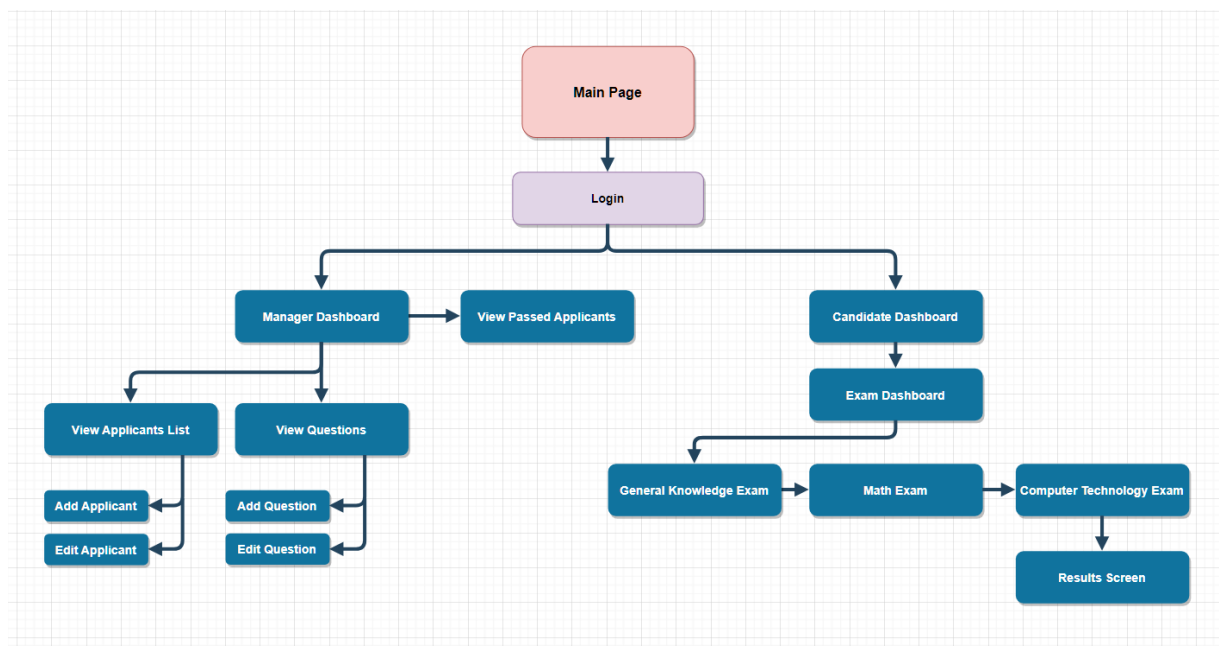
Design Plan: Online Aptitude Test	Document Name: Relationship Diagram	SWD/Form No.07/RD/Ver1.0
Effective Date: 11/12/2023	Version 4.0	Page No: 23 of 56



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Design Plan: Online Aptitude Test	Document Name: SiteMap	SWD/Form No.08/SM/Ver1.0
Effective Date: 11/12/2023	Version 4.0	Page No: 24 of 56

SiteMap



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Design Plan: Online Aptitude Test	Document Name: Algorithm	SWD/Form No.09/ALG/Ver1.0
Effective Date: 11/12/2023	Version 4.0	Page No: 25 of 56

Algorithm

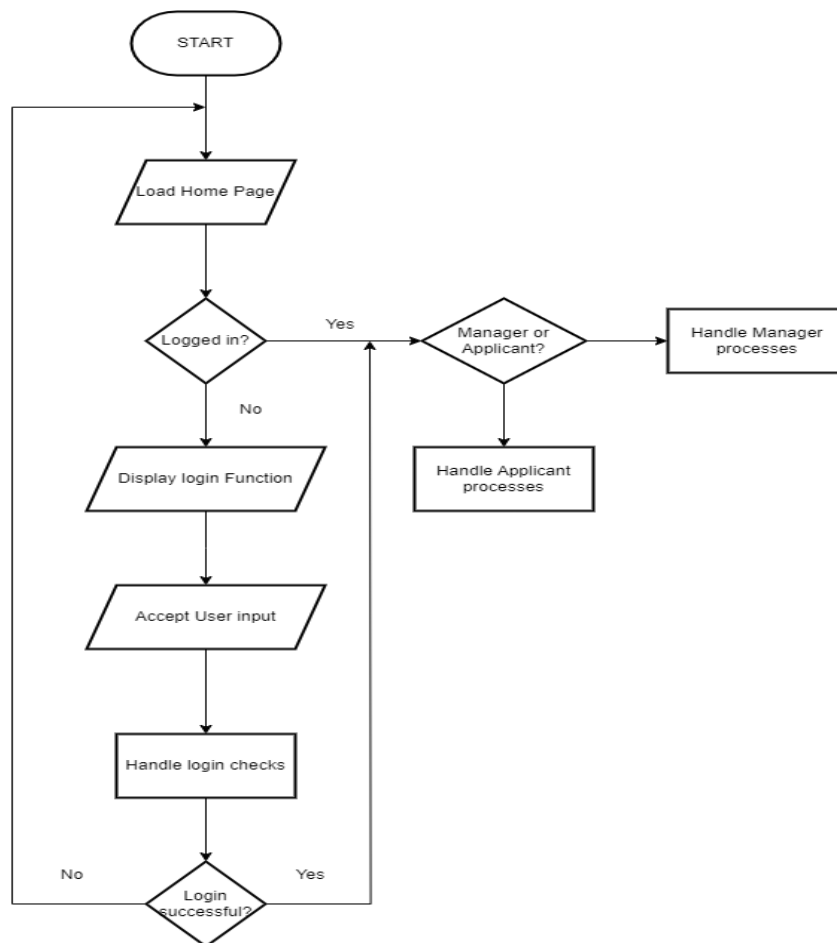


Figure 1. Flowchart showing processes of Main Page

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Effective Date: 11/12/2023	Version 4.0	Page No: 26 of 56

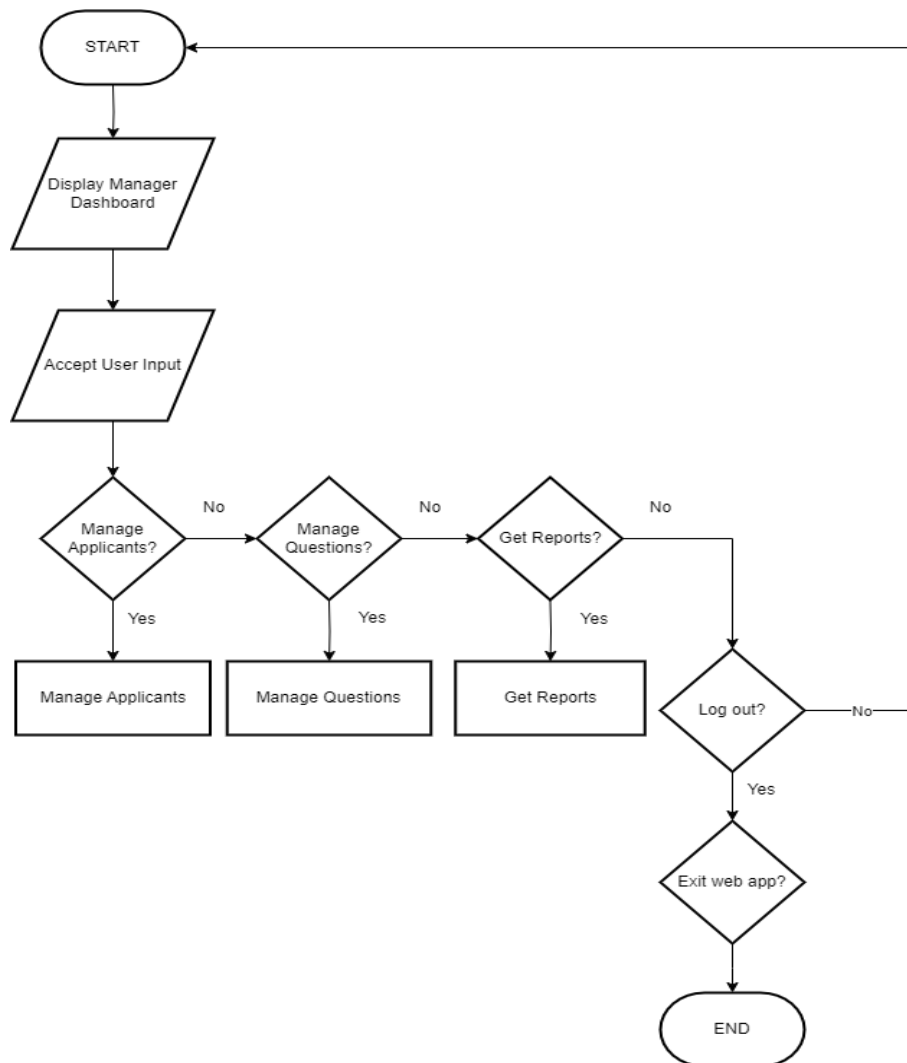


Figure 2. Flowchart for Manager activities

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Effective Date: 11/12/2023	Version 4.0	Page No: 27 of 56

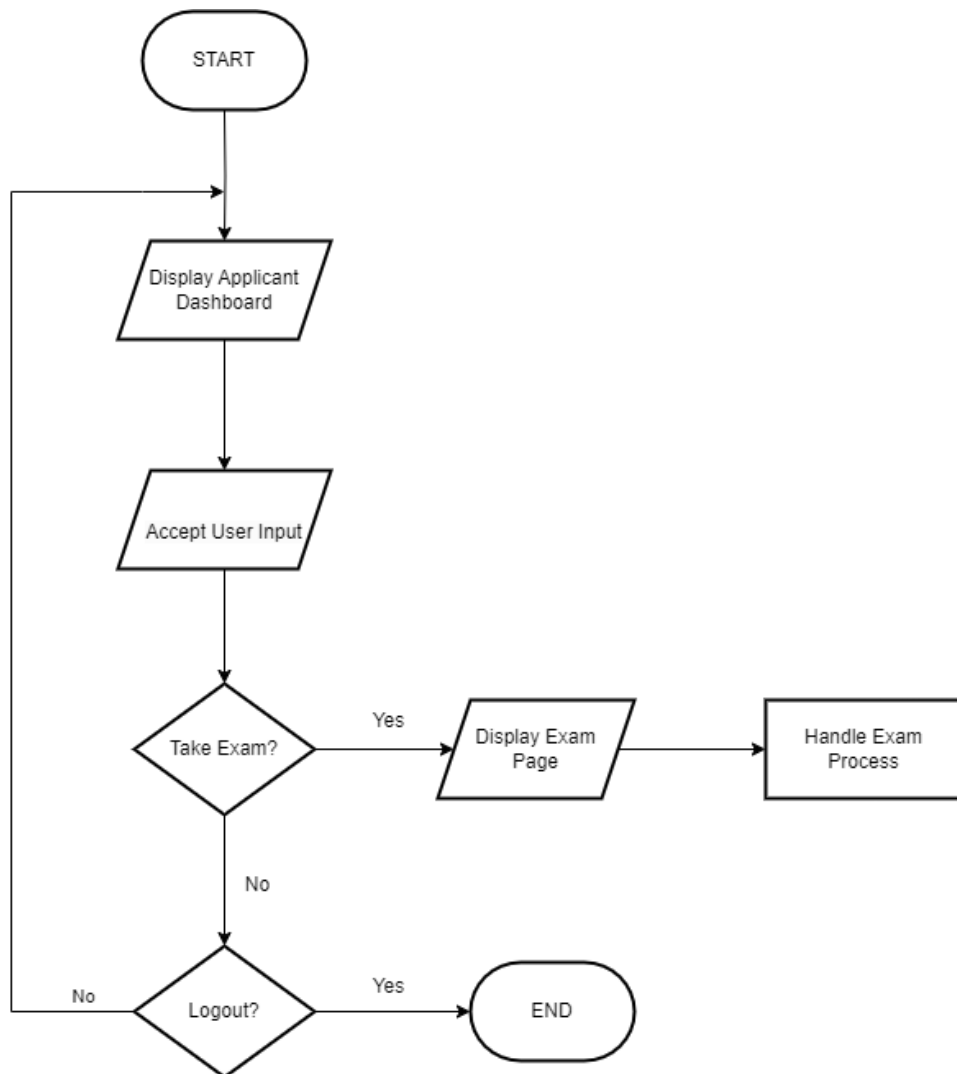


Figure 3. Flowchart for basic Applicant activities

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Effective Date: 11/12/2023	Version 4.0	Page No: 28 of 56

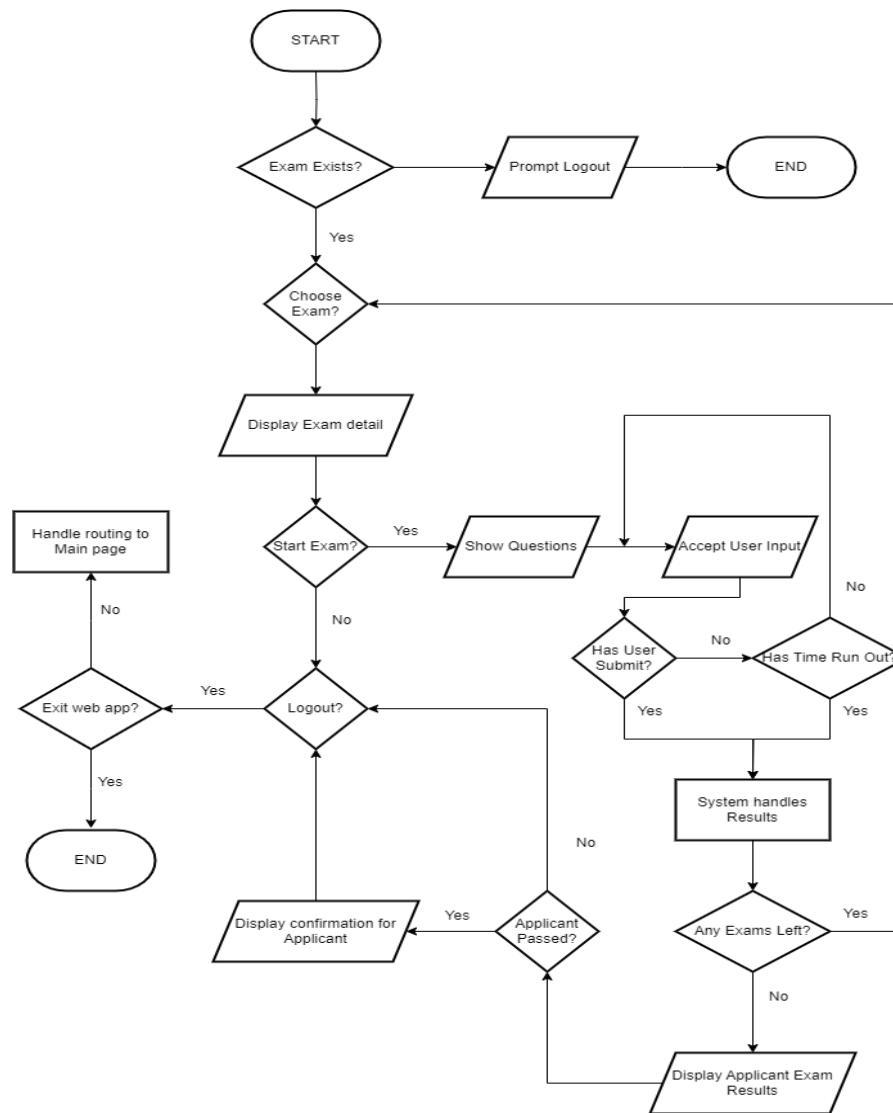


Figure 4. Flowchart for Exam functionality

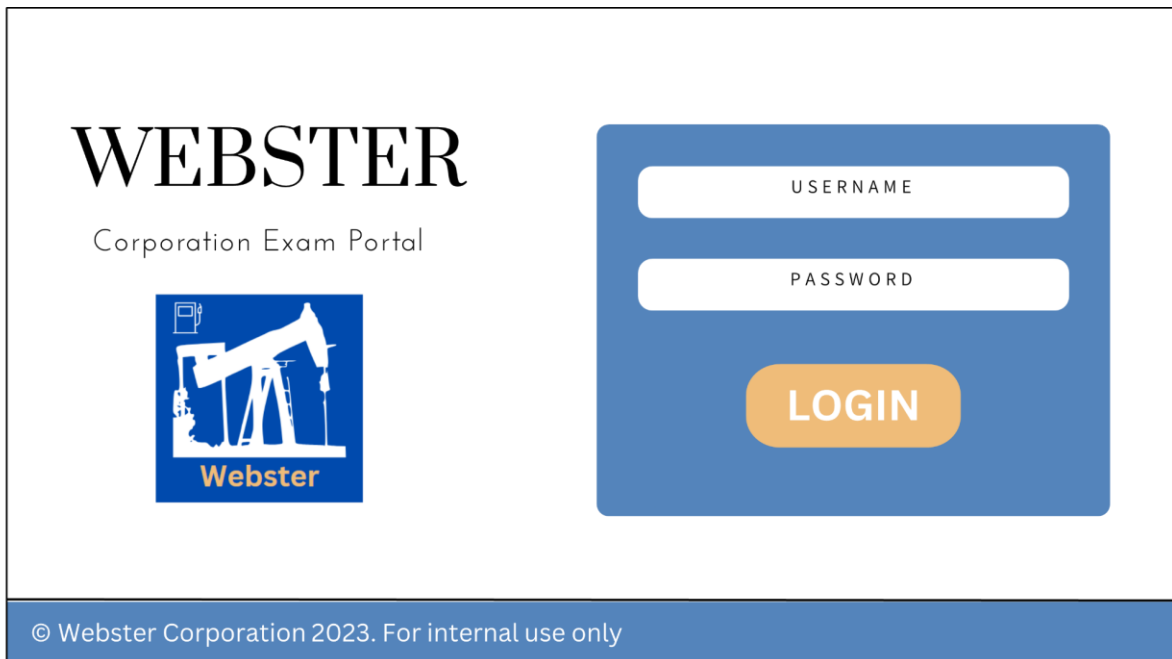
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Review 03


Design Plan:	Document Name: Screen shots	SWD/Form No.09/SS/Ver1.0
Effective Date:	Version 4.0	Page No: 30 of 56

Screen shots

1. Home / Login



WEBSTER
Corporation Exam Portal


Webster

USERNAME

PASSWORD

LOGIN

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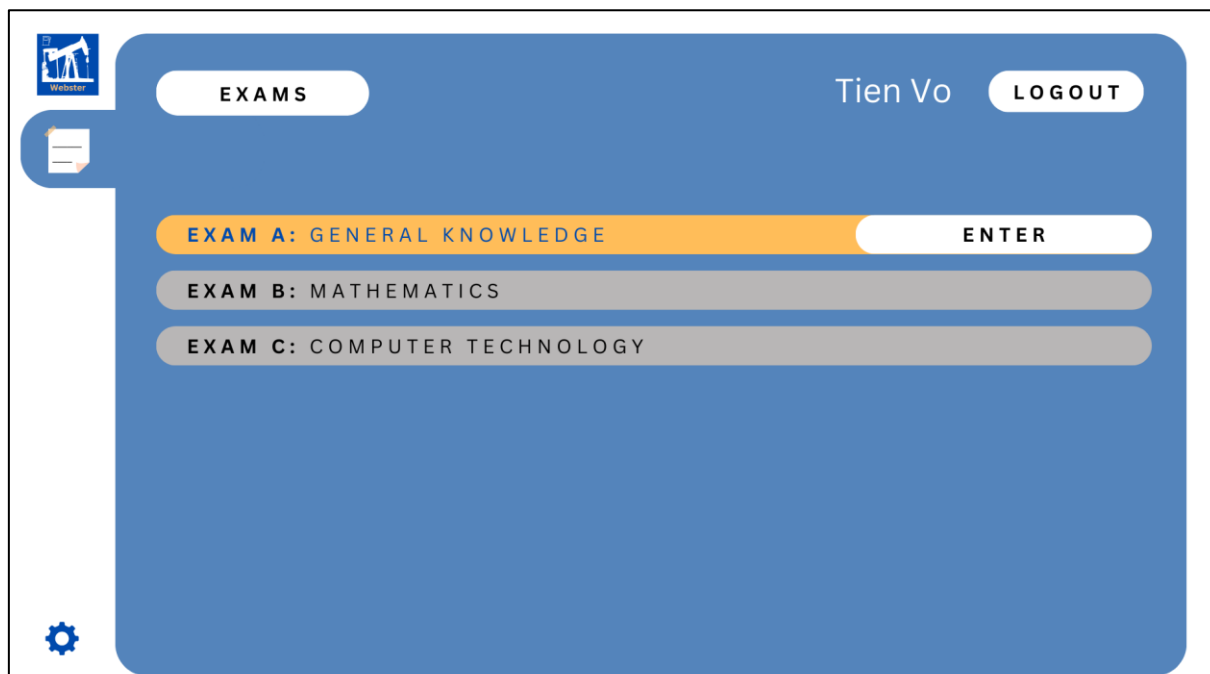
Description: Login / Main page, used to login into the System

Navigation: Go into the Applicant Dashboard if logged in as Applicant, Manager Dashboard if logged in as Manager

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Design Plan:	Document Name: Screen shots	SWD/Form No.09/SS/Ver1.0
Effective Date:	Version 4.0	Page No: 31 of 56

2. Applicant Exam Dashboard



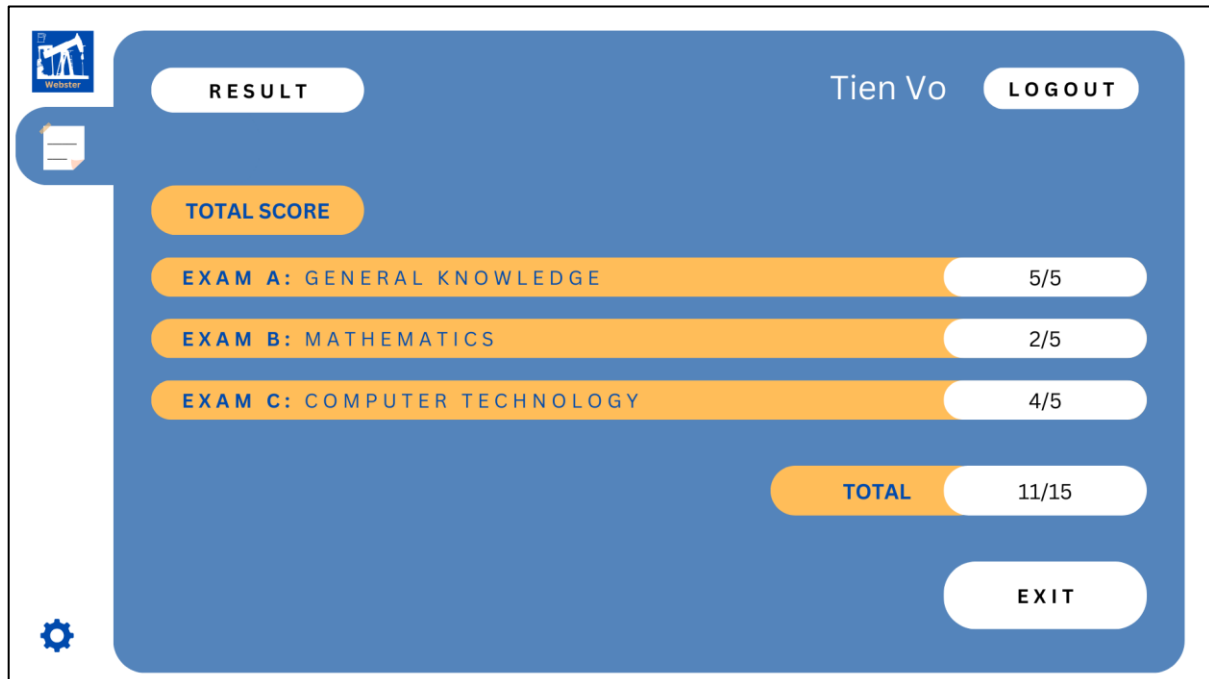
Description: Applicant Exam Dashboard, showing 3 links to the exams, only General Knowledge exam is enabled

Navigation: Exam Detail, Logout, Exams

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Design Plan:	Document Name: Screen shots	SWD/Form No.09/SS/Ver1.0
Effective Date:	Version 4.0	Page No: 32 of 56

3. Result



Description: Result Screen displaying the results of the 3 exams

Navigation: Applicant Dashboard, Logout

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Design Plan:	Document Name: Screen shots	SWD/Form No.09/SS/Ver1.0
Effective Date:	Version 4.0	Page No: 33 of 56

4. Exam Detail Page

4.1. General Knowledge Exam

GEN. KNOWLEDGE

Tien Vo

LOGOUT

QUESTION 1:

MARKS: 5

WHAT IS THE CAPITAL OF THE USA?

A

WASHINGTON, D.C

B

TORONTO

C

NEW YORK

D

SAN FRANCISCO

TIME LEFT

1:30

NEXT

SUBMIT

Description: Exam Page for Applicant (General Exam page)

Navigation: Logout, Math exam

	Prepared by (Student)	Approved by (Faculty)
	Project Group No: 5	LE THANH NHAN
Signature		
Date		

Design Plan:	Document Name: Screen shots	SWD/Form No.09/SS/Ver1.0
Effective Date:	Version 4.0	Page No: 34 of 56

4.2. Mathematics Exam

MATHEMATICS

Tien Vo

LOGOUT

QUESTION 1:

MARKS: 5

7+12 = ?

A

2

B

1

C

21

D

19

TIME LEFT

1:30

NEXT

SUBMIT

Description: Exam Page for Applicant (General Exam page)

Navigation: Logout, Computer Technology Exam

	Prepared by (Student)	Approved by (Faculty)
	Project Group No: 5	LE THANH NHAN
Signature		
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Design Plan:	Document Name: Screen shots	SWD/Form No.09/SS/Ver1.0
Effective Date:	Version 4.0	Page No: 35 of 56

4.3. Computer Technology Exam

COMPUTER TECHNOLOGY

Tien Vo

LOGOUT

QUESTION 1:

MARKS: 5

WHAT IS RAM?

A

RANDOM ACCESS MEMORY

B

READ-ABLE MEMORY

C

RANDOM ACCESSIBLE MEMORY

D

READING ACCESS MEMORY

TIME LEFT

1:30

NEXT

SUBMIT


Description: Exam Page for Applicant (General Exam page)

Navigation: Logout, Results Screen

	Prepared by (Student)	Approved by (Faculty)
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Design Plan:	Document Name: Screen shots	SWD/Form No.09/SS/Ver1.0
Effective Date:	Version 4.0	Page No: 36 of 56

5. View Applicants


[Dashboard](#)
[Applicants](#)
[Questions](#)
Hello, Manager
[LOGOUT](#)

VIEW APPLICANTS

[NEW APPLICANT](#)

ID	First Name	Last Name	Age	Exam Status	Address	City	Phone Number	Email
1	Van A	Nguyen	32	Passed	123 Duong so 11	TP. HCM	0523232131	nguyenvana@gmail.com
2	Sinh B	Le	37	Failed	456 Cong hoa	TP. HCM	0726235231	lvb1986@gmail.com
3								
4								
5								

1

2

3

4

5

>

>>

[Generate Report](#)


Description: View Applicants for Manager

Navigation: Add/Edit Applicant, View Questions, Logout

	Prepared by (Student)	Approved by (Faculty)
	Project Group No: 5	LE THANH NHAN
Signature		
Date		

Design Plan:	Document Name: Screen shots	SWD/Form No.09/SS/Ver1.0
Effective Date:	Version 4.0	Page No: 37 of 56

6. View Questions


[Dashboard](#)
[Applicants](#)
[Questions](#)
Hello, Manager
[LOGOUT](#)

QUESTION DASHBOARD

[NEW QUESTION](#)

ID	Question Text	Marks	Exam Type
1	What is 1+1?	5	Mathematics
2	What is the capital of Vietnam?	5	General Knowledge
3			
4			
5			

1
2
3
4
5
>
>>


Description: View Questions for Manager

Navigation: Add/Edit Questions, View Applicants, Logout

	Prepared by (Student)	Approved by (Faculty)
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Signature		
Date		

Design Plan:	Document Name: Screen shots	SWD/Form No.09/SS/Ver1.0
Effective Date:	Version 4.0	Page No: 38 of 56

7. Add / Edit Applicant


Dashboard Applicants Questions
Hello, Manager **LOGOUT**

Add / Edit Applicant

SAVE

First Name

Last Name

Age

Address

City

Username

Password

PhoneNumber

Email

Profile picture

Add image

Education	Work Experience
Phan Chau Trinh High School (2013-2015)	A Company, 2 years EXP, specializing in Business Analytics (2020-2022)

Add

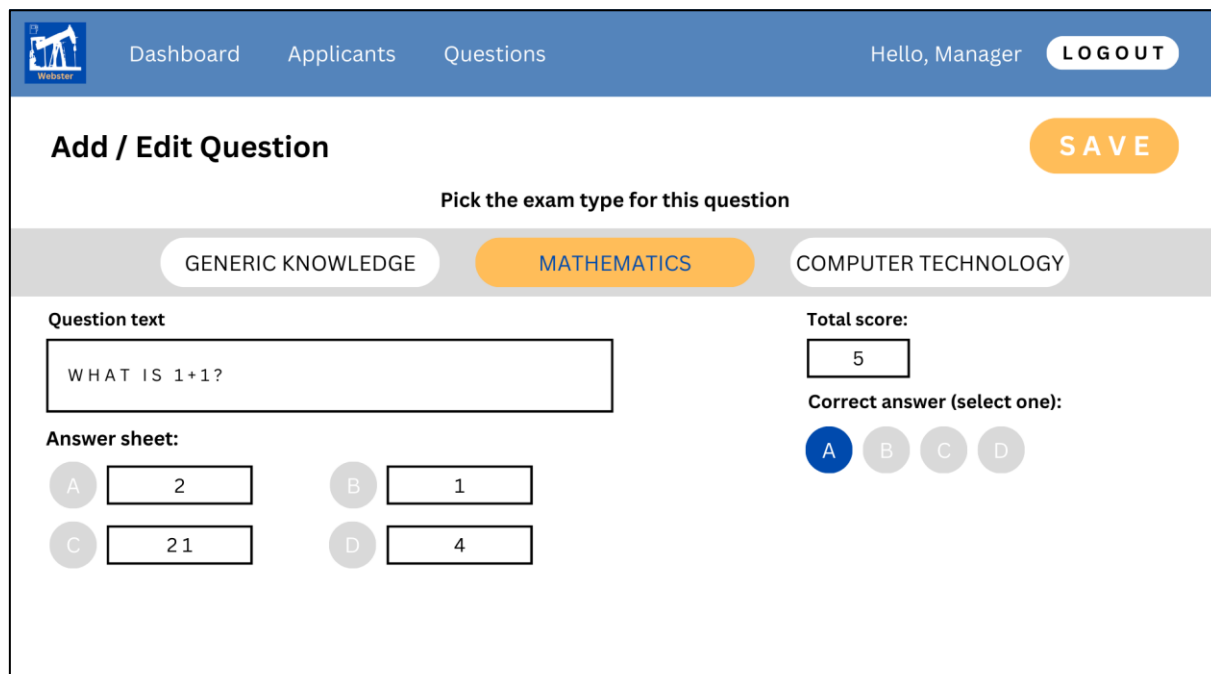
Description: Add / Edit Applicant

Navigation: View Applicants, View Questions, Logout

	Prepared by (Student)	Approved by (Faculty)
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Date		

Design Plan:	Document Name: Screen shots	SWD/Form No.09/SS/Ver1.0
Effective Date:	Version 4.0	Page No: 39 of 56

8. Add / Edit Question



Add / Edit Question SAVE

Pick the exam type for this question

GENERIC KNOWLEDGE **MATHEMATICS** COMPUTER TECHNOLOGY

Question text

WHAT IS 1+1?

Total score:

5

Correct answer (select one):

☒ A ☐ B ☐ C ☐ D

Answer sheet:

A 2 B 1 C 21 D 4

Description: Add / Edit Question

Navigation: View Applicants, View Questions, Logout

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Date		

Design Plan:	Document Name: Checklist of Validations	SWD/Form No.10/CLV/Ver1.0
Effective Date:	Version 4.0	Page No: 40 of 56

Checklist of Validations

Option	Validated
Are all the questions answered before allowing Applicant to submit prematurely?	Yes
Does the manager have the right to add/edit all Applicants?	Yes
Are all the records properly fed into the appropriate database?	Yes
Are all the program codes working?	Yes
Have all the modules been properly integrated and are completely functional?	Yes
Have all the Design and Coding Standards been followed and implemented?	Yes
Is the GUI design consistent all over?	Yes
Is the navigation sequence correct through all the forms/ screens in the application?	Yes
Is exception handling mechanism	Yes

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Date		

Design Plan:	Document Name: Checklist of Validations	SWD/Form No.10/CLV/Ver1.0
Effective Date:	Version 4.0	Page No: 41 of 56

implemented in all the screens?	
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Date		

Design Plan:	Document Name: Submission Checklist	SWD/Form No.11/SCL/Ver1.0
Effective Date:	Version 4.0	Page No: 42 of 56

Submission Checklist

Sr. No.	Particulars	Yes	No	NA	Comments
1.	Are all users able to search for a particular record?	Yes			
2.	Are all old records properly saved and retrieved when required?	Yes			
3.	Have all modules been properly integrated and are completely functional?	Yes			
4.	Are GUI contents devoid of spelling mistakes?	Yes			
5.	Is the application user-friendly?	Yes			
6.	Is the project published properly into a setup file?	Yes			

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Date		

Design Plan:	Document Name: Task Sheet	SWD/Form No.12/TS/Ver1.0
Effective Date:	Version 4.0	Page No: 43 of 56

No	Member	Task		Activity Plan	Date of Preparation of Activity Plan		
				Planned Start Date	Actual Start Date	Actual Days	Status
1	VÕ MINH TIẾN	DB	Create DbContext for Web App	12/20/2023	12/24/2023	0.5	OK

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Design Plan:	Document Name: Task Sheet	SWD/Form No.12/TS/Ver1.0
Effective Date:	Version 4.0	Page No: 44 of 56

2		Manager	Create Manager	12/20/2023	12/24/2023	0.5	OK
3		Exam	Create Exam Questions model	12/20/2023	12/26/2023	4	OK
			Create template for Exam Page				
			Create timer for Exam				
4		Main	Create nav-bar	12/20/2023	12/24/2023	1	OK

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Design Plan:	Document Name: Task Sheet	SWD/Form No.12/TS/Ver1.0
Effective Date:	Version 4.0	Page No: 45 of 56

5		Report	Create Report functionality				
6		Applicants	Create Applicant models	12/20/2023	12/24/2023	0.5	OK
			Create display function for Applicants				
			Creating Applicant adding/edit function				

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Design Plan:	Document Name: Task Sheet	SWD/Form No.12/TS/Ver1.0
Effective Date:	Version 4.0	Page No: 46 of 56

1	HUỖNH HỮU KHA	Manager	Create Manager model	12/20/2023	12/24/2023	5	OK
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Date		

Design Plan:	Document Name: Task Sheet	SWD/Form No.12/TS/Ver1.0
Effective Date:	Version 4.0	Page No: 47 of 56

			Create Manager login system				
2		Exam	Create Exam dashboard page	12/20/2023	12/24/2023	2	OK
3		Login	Create Login page	12/20/2023	12/24/2023	5	OK
			Create Login functionality				

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Date		

Design Plan:	Document Name: Task Sheet	SWD/Form No.12/TS/Ver1.0
Effective Date:	Version 4.0	Page No: 48 of 56

4		Questions	Create Question dashboard page	12/20/2023	12/25/2023	1	OK
5		Result	Create Result page	12/20/2023	12/27/2023	1	OK

1	NGUYỄN MẠNH CHIẾN	Database	Create Exam models	12/20/2023	12/24/2023	2	OK
			Create ApplicantExam model				
		Manager	Create Manager				

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Design Plan:	Document Name: Task Sheet	SWD/Form No.12/TS/Ver1.0
Effective Date:	Version 4.0	Page No: 49 of 56

2			Dashboard	12/20/2023	12/24/2023	2	OK
3		Back-end	Create Generic Repository	12/20/2023	12/24/2023	2	OK
4		Questions	Create Add Questions page	12/20/2023	12/24/2023	6	OK
			Create Question adding/edit function				

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Date		

Design Plan:	Document Name: Task Sheet	SWD/Form No.12/TS/Ver1.0
Effective Date:	Version 4.0	Page No: 50 of 56

5		Result	Add Result functionality	12/21/2023	12/27/2023	1	OK
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Date		