

FPT ACADEMY INTERNATIONAL FPT – APTECH COMPUTER EDUCATION

Online Aptitude Test

Supervisor: $L\hat{E} THANH NH\hat{A}N$

Semester: III

Batch No: *T1.2208.M2*

Group No: 5

Order:	Full name	Roll No.
1.	VÕ MINH TIÉN	Student1381867
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FPT ACADEMY INTERNATIONAL FPT – APTECH COMPUTER EDUCATION

NGUYỄN MẠNH Student1414353 3. CHIẾN

Month: 12 Year: 2023

Mr.	VÕ MINH TIẾN	
Mr.	HUỲNH HỮU KHA	
Mr.	NGUYỄN MẠNH CHIẾN	
	ssfully Designed & Developed Online Aptitude Test	
	Online Aptitude Test by:	
lave succe	Online Aptitude Test	-
	Online Aptitude Test Oy: Mr. LE THANH NHAN	
	Online Aptitude Test Oy: Mr. LE THANH NHAN	

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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.

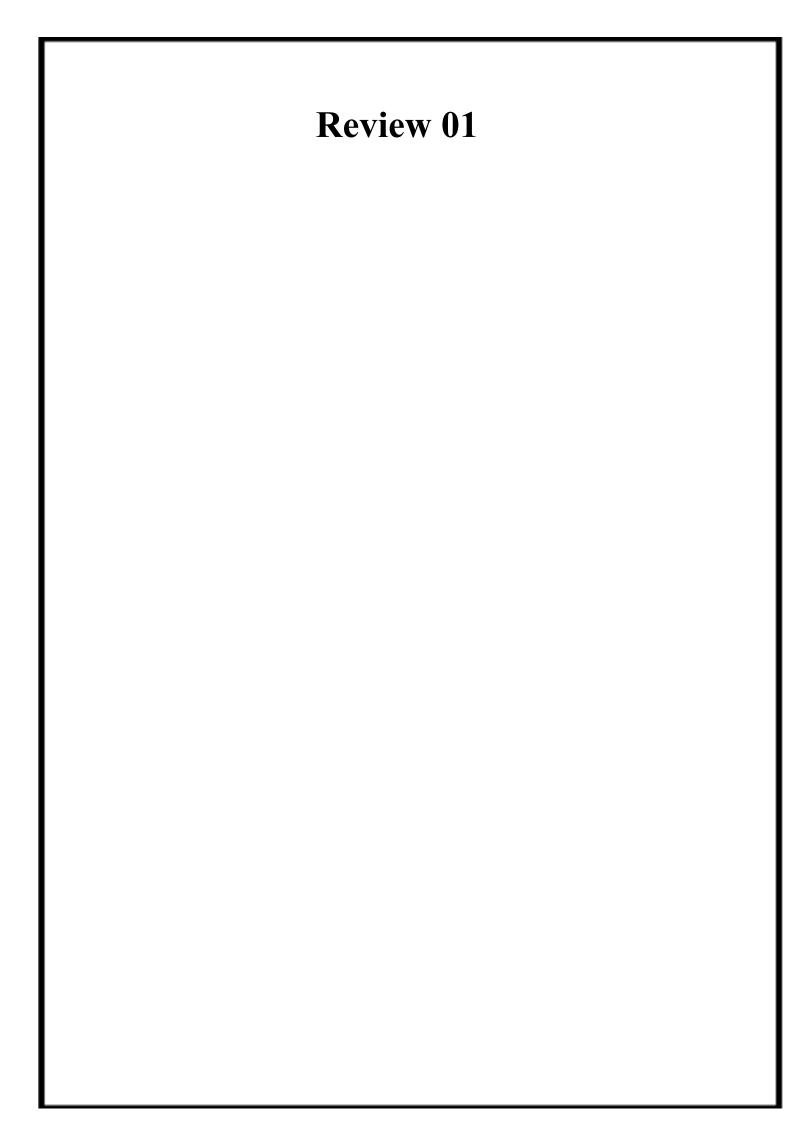
The objective is not to teach you the software's but to provide you with a real life scenario and help you create basic applications using the tools.

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.



Design Plan : Online Aptitude Test	Document Name: Problem Definition	SWD/Form No.01/PD/Ver1.0
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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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The application should perform the following functions:

URL should be https://websterapplicantexam.com.

Page requirements:

- Main page (Login page)
- Applicant:
 - Dashboard
 - o Exam page
 - o Result page
 - o Logout
- Manager:
 - Dashboard
 - View Applicant
 - Create/Edit Applicant
 - View Report
 - o View Questions
 - o 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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- 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.
- 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
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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
- o Handle setting Candidate Usernames and Passwords
- Handing setting and saving Questions
- o 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).

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Design Plan: Online Aptitude Test	Document Name: Customer Requirements Specifications	SWD/Form No.02/CRS/Ver1.0
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- View info of specific Candidates
- 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:

- o 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.

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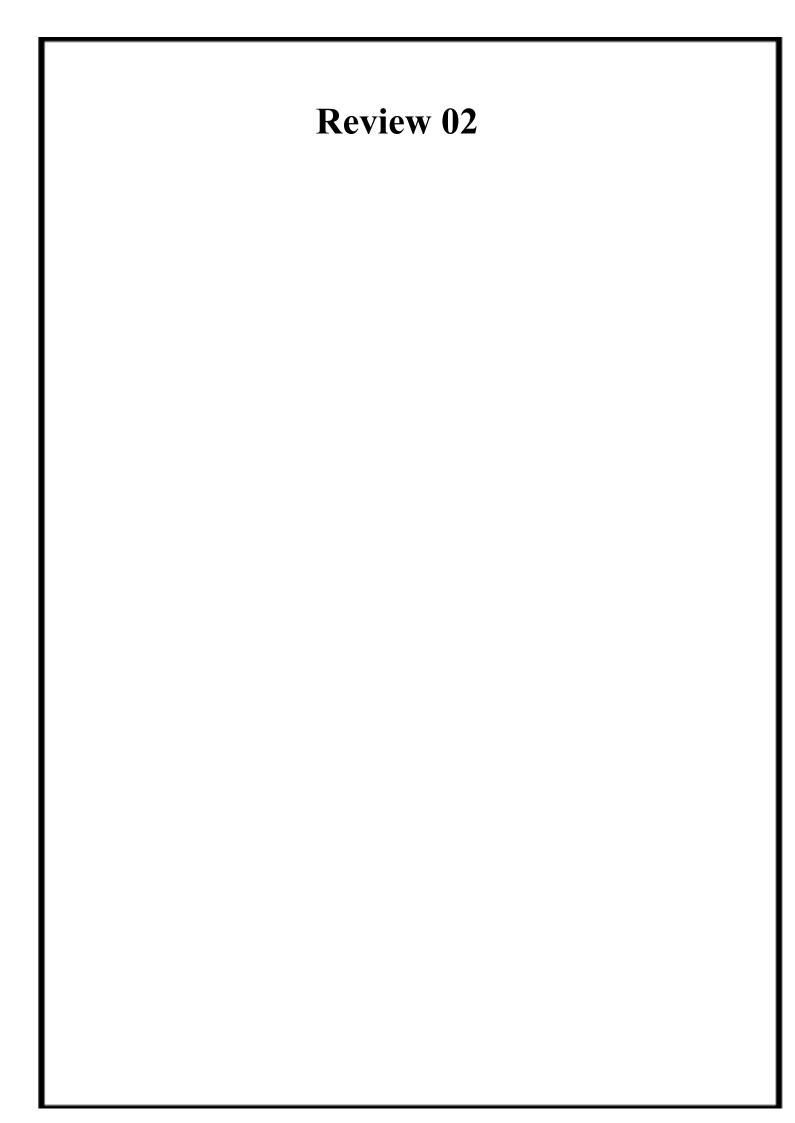
Output:

- o Viewing List of Exams
- o Viewing List of Questions
- o 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.

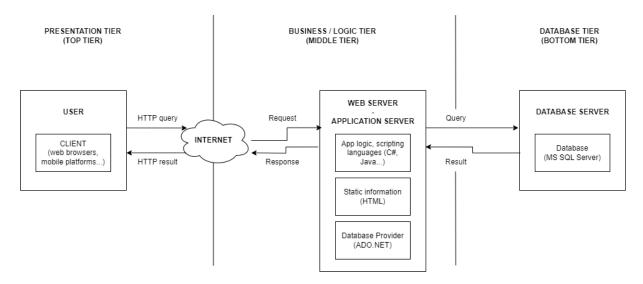
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Design Plan: Online Aptitude Test	Document Name: Architecture and Design of the Project	SWD/Form No.03/ARD/Ver1.0
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Architecture and Design of the Project

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
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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:**

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Design Plan: Online Aptitude Test	Document Name: Architecture and Design of the Project	SWD/Form No.03/ARD/Ver1.0
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- 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:
 - 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**:

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Design Plan: Online Aptitude Test	Document Name: Architecture and Design of the Project	SWD/Form No.03/ARD/Ver1.0
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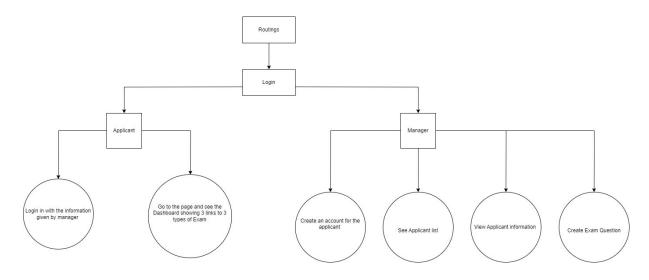
- The Controller acts as an intermediary between the Model and the View.
 It receives user inputs from the View, processes them, and updates the
 Model accordingly. The Controller handles:
 - Handling user interactions during the test, such as submitting answers or navigating through questions.
 - Initiating 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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Data Flow Diagram

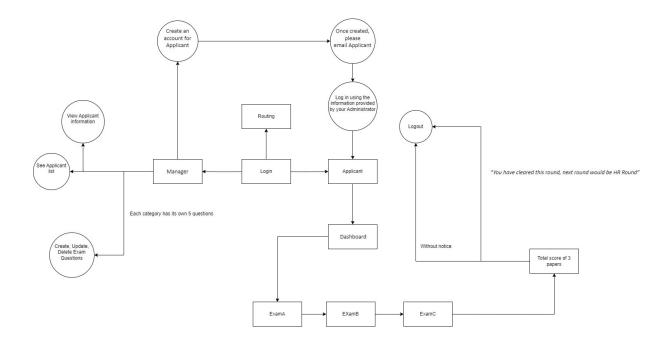
DFD Level 0:



DFD Level 1:

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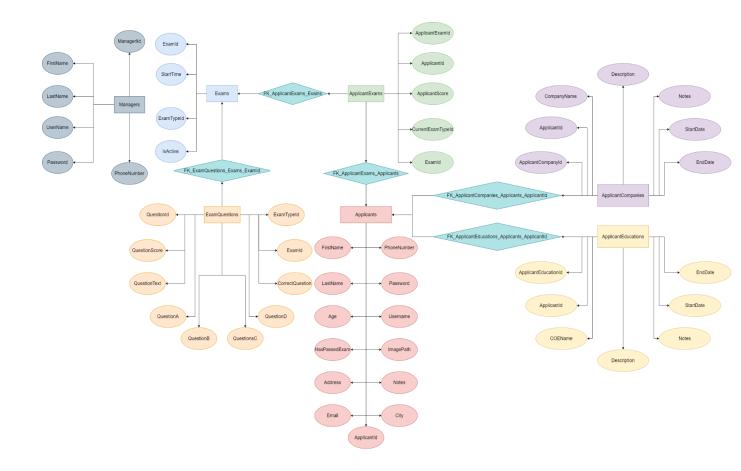
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Design Plan: Online Aptitude Test	Document Name: Entity Relationship Diagram	SWD/Form No.05/ERD/Ver1.0
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Entity Relationship (ER) Diagram



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Design Plan: Online Aptitude Test	Document Name: Table Design	SWD/Form No.06/TAB/Ver1.0
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A. Table Design

The Table Design is defined below:

1. ApplicantCompanies

Ap	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
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2. ApplicantEducations

Ap	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
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3. ApplicantExams

ApplicantExams

Ap	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
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4. Applicants

Ap	Applicants				
	Field name	Data type	Key/Constraint		
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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5. ExamQuestions

Exa	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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6. Exams

Exa	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

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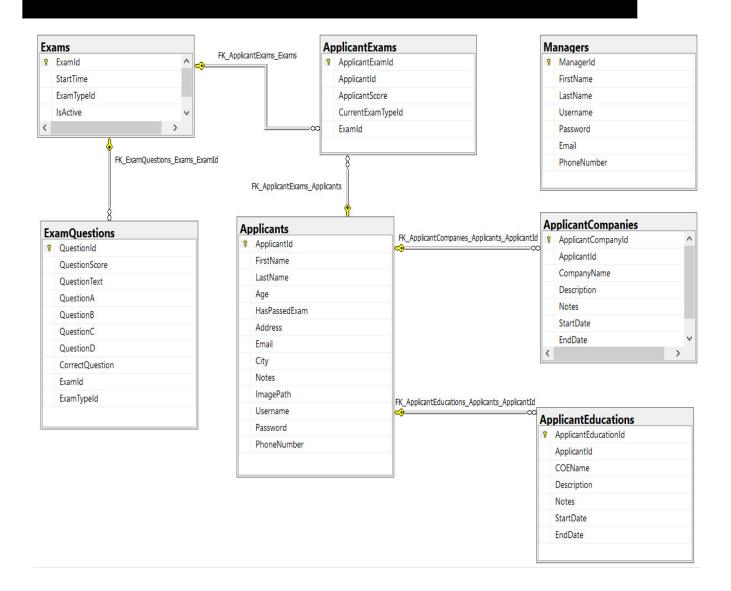
7. Managers

Ma	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

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Design Plan: Online Aptitude Test	Document Name: Relationship Diagram	SWD/Form No.07/RD/Ver1.0
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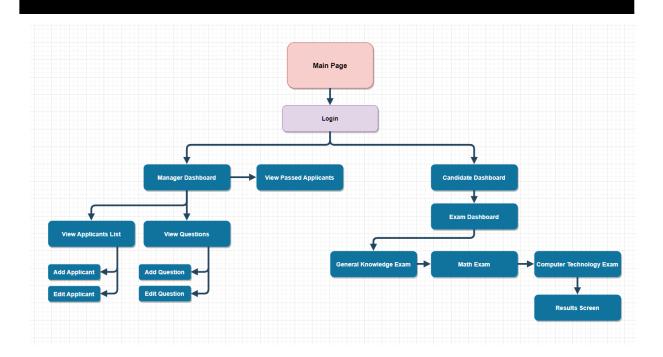
B. Relationship Diagram



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Design Plan: Online Aptitude Test	Document Name: SiteMap	SWD/Form No.08/SM/Ver1.0
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SiteMap



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Algorithm

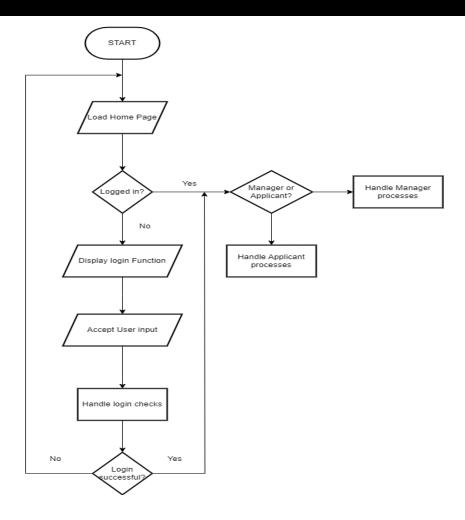


Figure 1. Flowchart showing processes of Main Page

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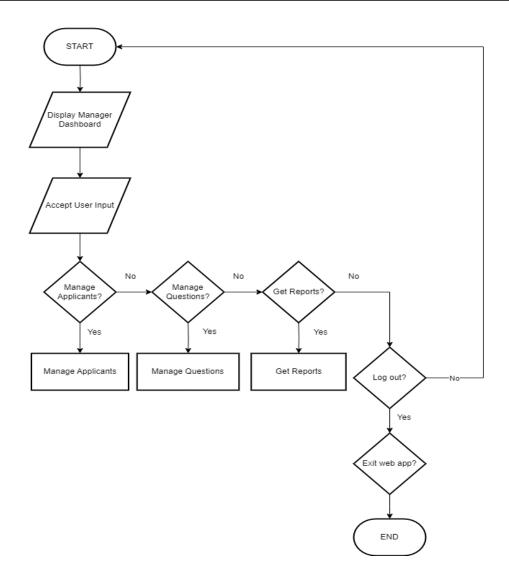


Figure 2. Flowchart for Manager activities

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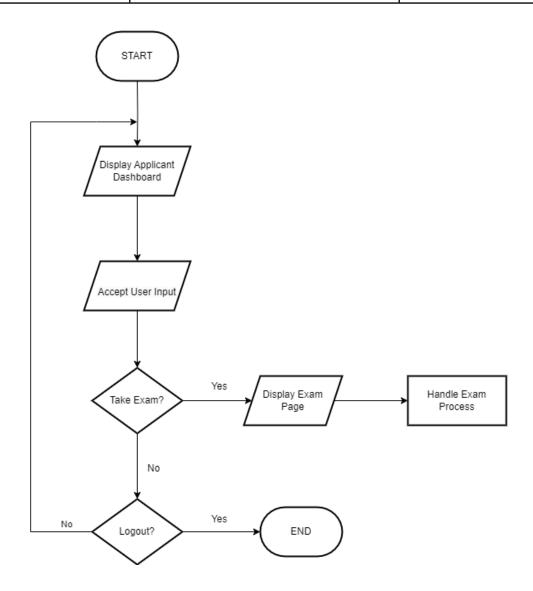


Figure 3. Flowchart for basic Applicant activities

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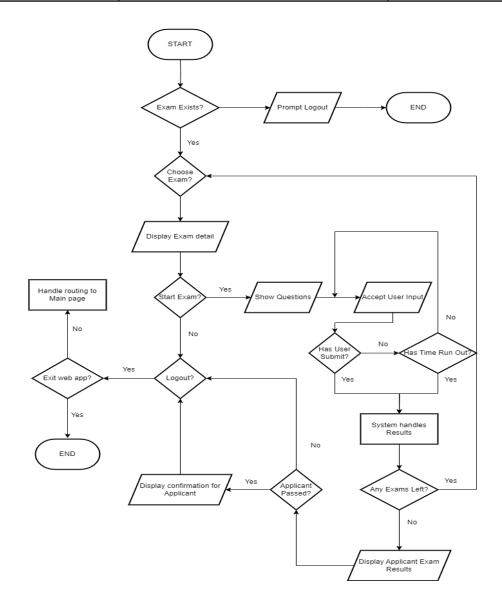
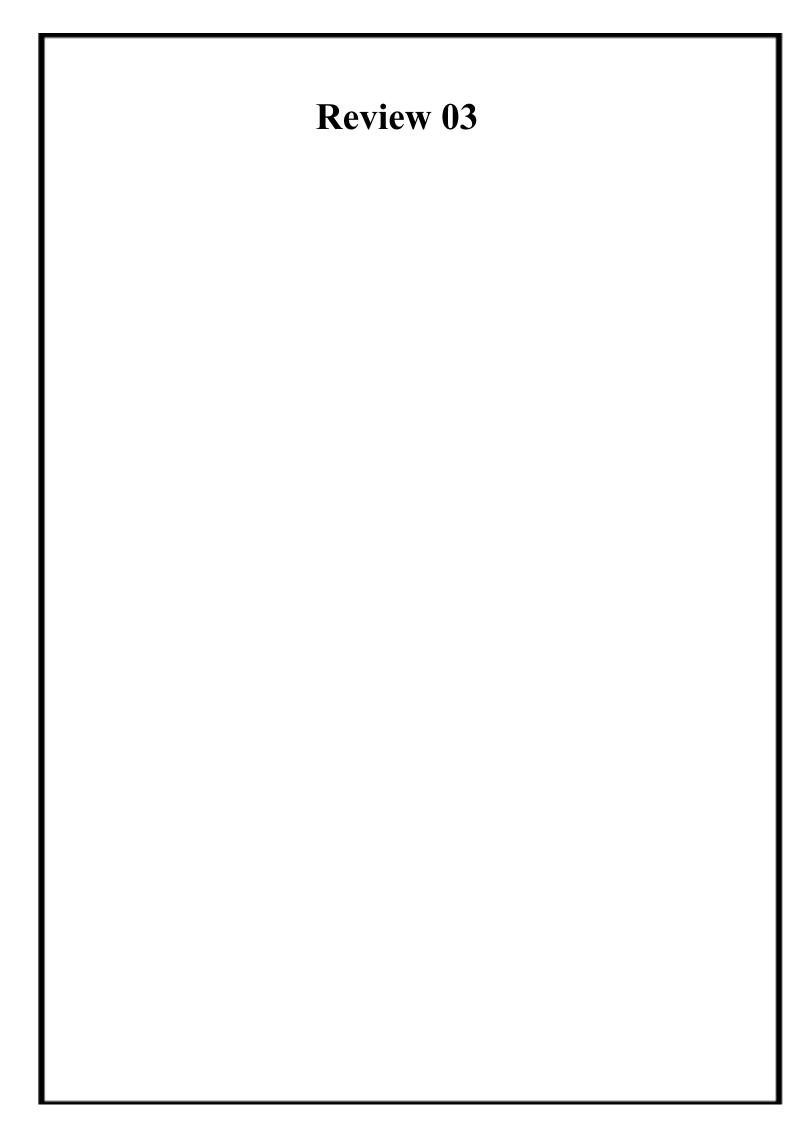


Figure 4. Flowchart for Exam functionality

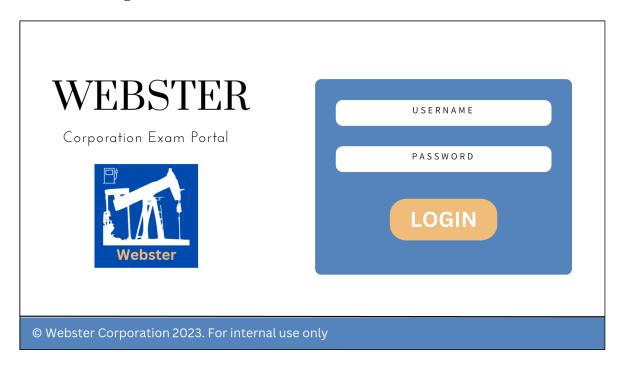
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Design Plan:	Document Name: Screen shots	SWD/Form No.09/SS/Ver1.0
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Screen shots

1. Home / Login



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

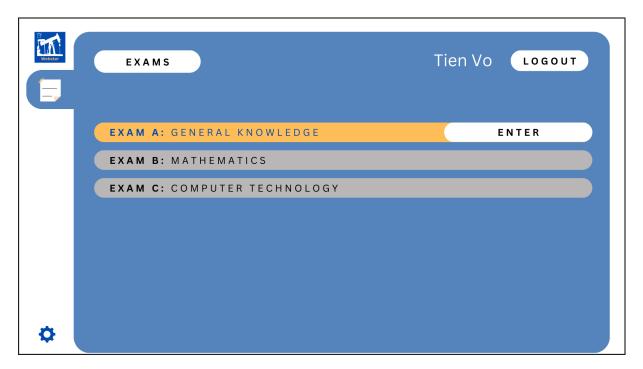
Navigation: Go into the Applicant Dashboard if logged in as Applicant, Manager

Dashboard if logged in as Manager

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2. Applicant Exam Dashboard



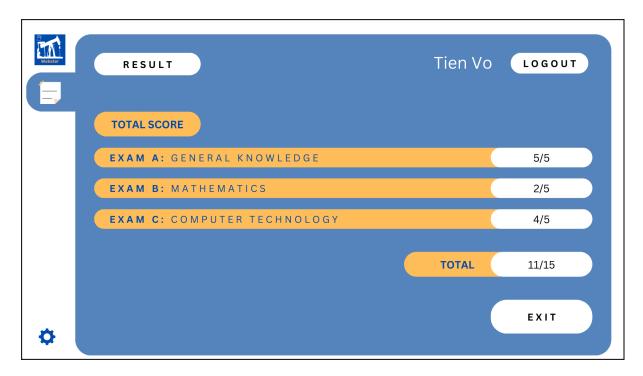
Description: Applicant Exam Dashboard, showing 3 links to the exams, only General Knowledge exam is enabled

Navigation: Exam Detail, Logout, Exams

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3. Result



Description: Result Screen displaying the results of the 3 exams

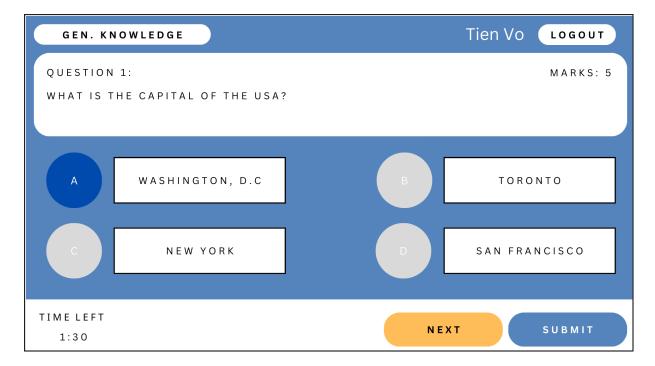
Navigation: Applicant Dashboard, Logout

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4. Exam Detail Page

4.1. General Knowledge Exam



Description: Exam Page for Applicant (General Exam page)

Navigation: Logout, Math exam

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4.2. Mathematics Exam

MATHEMATICS			Tien Vo Logout
QUESTION 1:			MARKS: 5
7+12 = ?			
A	2	В	1
C	21		19
TIME LEFT 1:30		NEX	SUBMIT

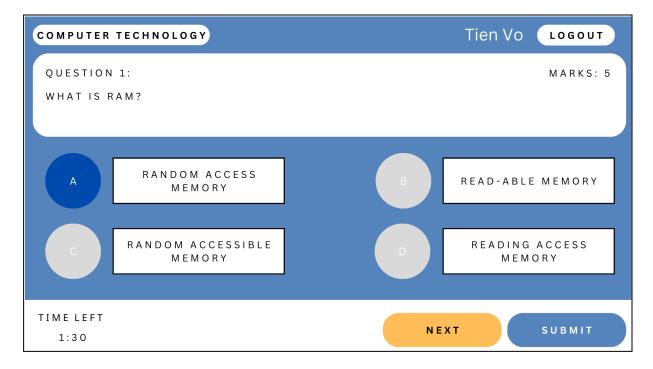
Description: Exam Page for Applicant (General Exam page)

Navigation: Logout, Computer Technology Exam

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4.3. Computer Technology Exam



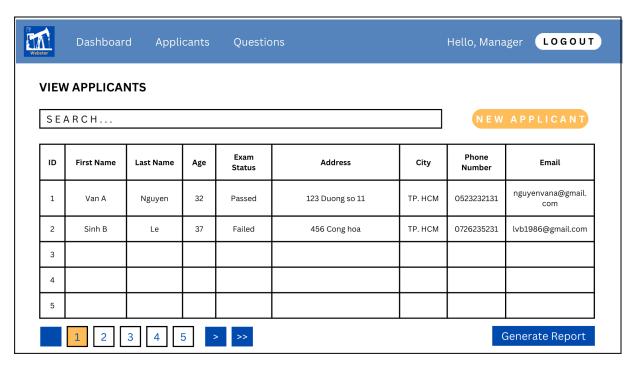
Description: Exam Page for Applicant (General Exam page)

Navigation: Logout, Results Screen

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5. View Applicants



Description: View Applicants for Manager

Navigation: Add/Edit Applicant, View Questions, Logout

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Effective Date:	Effective Date: Version 5.0	

6. View Questions

Webster	Dashboard Applicants Questions		Hello, Manager LOGOUT	
QUES	TION DASHBOARD			
SEA	СН		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 >>>			

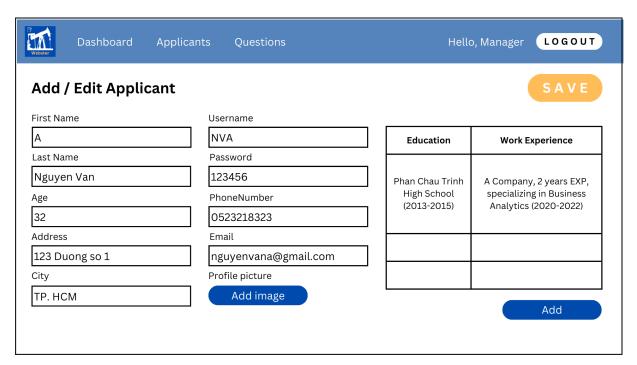
Description: View Questions for Manager

Navigation: Add/Edit Questions, View Applicants, Logout

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7. Add / Edit Applicant



Description: Add / Edit Applicant

Navigation: View Applicants, View Questions, Logout

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Signature		
Date		

Design Plan:	Document Name: Screen shots	SWD/Form No.09/SS/Ver1.0
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8. Add / Edit Question

Webster	Dashboard	Applicants	Questions		Hello, Manager LOGOUT
Add	/ Edit Ques	stion	Diek the even true	aa far this gua	SAVE
			Pick the exam typ	re for this que	SUOTI
	GENERI	C KNOWLEDGE	MATH	EMATICS	COMPUTER TECHNOLOGY
Questi	on text				Total score:
W H	AT IS 1+1?]	5 Correct answer (select one):
Answe	r sheet:				A B C D
A	2	В	1		
C	21	D	4		

Description: Add / Edit Question

Navigation: View Applicants, View Questions, Logout

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Design Plan:	Document Name: Checklist of Validations	SWD/Form No.10/CLV/Ver1.0
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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

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Design Plan:	Document Name: Checklist of Validations	SWD/Form No.10/CLV/Ver1.0
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Is exception handling mechanism	Yes
implemented in	
all the screens?	

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Design Plan:	Document Name: Submission Checklist	SWD/Form No.11/SCL/Ver1.0
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Submission Checklist

Sr. No.	Particulars	Yes	No	N A	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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Design Plan:	Document Name: Task Sheet	SWD/Form No.12/TS/Ver1.0
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				Activity Plan	Date of Prepa	aration (of Activity
No	Member	Task		Planned Start Date	Actual Start Date	Actu al Days	Status
1	VÕ MINH TIẾN	DB	Create DbContext for Web App	12/17/2023	12/17/2023	0.5	ОК

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Design Plan:	Document Name: Task Sheet	SWD/Form No.12/TS/Ver1.0
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2	Manager	Create Manager	12/23/2023	12/23/2023	0.5	ОК
3	Exam	Create Exam Questions model Create template for Exam Page	12/28/2023	1/2/2024		
		Create timer for Exam			4	ОК
4	Main	Create nav-bar	12/22/2023	12/23/2023	1	ОК

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Design Plan:	Document Name: Task Sheet	SWD/Form No.12/TS/Ver1.0
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5		Report	Create Report functionality				
6	A	Applicants	Create Applicant models Create display function for Applicants	12/18/2023	12/23/2023	3.5	OK

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Design Plan:		ı	Document Name: Task Sheet			SWD/Form No.12/TS/Ver1.0			
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Design Plan:	Document Name: Task Sheet	SWD/Form No.12/TS/Ver1.0
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1	HUỲNH HỮU KHA	Manager	Create Manager model Create Manager login system	12/19/2023	12/20/2023	1	ОК
2		Exam	Create Exam dashboard page	12/22/2023	12/24/2023	2	OK
3		Login	Create Login page	12/17/2023	12/19/2023	2	OK
		Login	Create Login	-2,2,,2,0	, ->,0		

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		functionality				
4	Questions	Create Question dashboard page	12/27/2023	12/28/2023	1	ОК
5	Result	Create Result page	12/26/2023	12/27/2023	1	ОК
6	Validation	Create Validation for all inputs	12/22/2023	12/24/2023	2	ОК

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Design Plan:	Document Name: Task Sheet	SWD/Form No.12/TS/Ver1.0
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1		Database	Create Exam models	12/16/2023	12/17/2023		
			Create ApplicantExam model			1	OK
2	NGUYĒN MẠNH CHIẾN	Manager	Create Manager Dashboard and Data getting functions	12/19/2023	12/21/2023	2	ОК
3		Back-end	Create Generic Repository	12/17/2023	12/19/2023	2	OK

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Design Plan:	Document Name: Task Sheet	SWD/Form No.12/TS/Ver1.0
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4	Oue	Quagtions	Create Add Questions page	12/20/2023	12/24/2023		
		Questions	Create Question adding/edit function		12,2 W 2 029	3	ОК
5		Result	Add calculating Result functionality	12/21/2023	12/23/2023	2	OK
6		Applicant	Creating Applicant adding/edit function	12/25/2023	12/27/2023	2	ОК

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