Logo

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**FPT - APTECH COMPUTER EDUCATION**

**Center Name: ACE-HCMC-2-FPT.**

**Address: 590 Cach Mang Thang 8, District 3, Ho Chi Minh City, Viet Nam.**

Doctor web forum

**Design Document**

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| **Supervisor:** | Mr. Tran Phuoc Sinh | |
| **Semester:** | 3 | |
| **Batch No:** | T1.2110.A0 | |
| **Group No:** | 2 | |
| **Order:** | **Full name** | **Roll No.** |
| 1. | Nguyen Van Bao | Student 1341596 |
| 2. | Nguyen Ngoc Truc Linh | Student 1344661 |
| 3. | Nguyen Thanh Huy | Student 1341613 |
| 4. | Nguyen Xuan Loc | Student 1341546 |
| 5. | Nguyen The Vinh | Student 1273003 |

This is to certify that

|  |  |
| --- | --- |
| **Mr.** | **NGUYEN VAN BAO** |
| **Ms.** | **NGUYEN NGOC TRUC LINH** |
| **Mr.** | **NGUYEN THANH HUY** |
| **Mr.** | **NGUYEN XUAN LOC** |
| **Mr.** | **NGUYEN THE VINH** |

Have successfully Designed & Developed

|  |  |  |
| --- | --- | --- |
|  |  |  |
| **DOCTOR WEB FORUM** | | |

Submitted by:

|  |
| --- |
| **Mr. TRAN PHUOC SINH** |

Date Of Issue:

10/2/2023

Authorized Signature:

|  |  |
| --- | --- |
| **Mr** | **NGUYEN VAN BAO** |

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**REVIEW** **1**

**ACKNOWLEDGEMENT**

First and foremost, we would like to express the deepest appreciation to our admirable instructor – Mr.Tran Phuoc Sinh . During the time of the project, he continually and convincingly conveyed a spirit of adventure in regard to research and scholarship, and an excitement in regard to teaching. Without his guidance and persistent help this dissertation would not have been possible. Therefore, once again, we truly value your dedication and guidance, Mr. Sinh.

Next, it would have been impossible to carry out and complete this project without the collaboration among our team members. Although we have gone through many obstacles during the project implementation, eventually we gained what we aimed at by our hard work, our strong commitment and of course, our brotherhood.

Finally, thanks to Aptech’s eProject team, we had a golden opportunity to apply what we have learnt into reality and gain hands-on experience which is essential for our future career.

## I. Introduction

The thirst for learning, upgrading technical skills and applying the concepts in real life environment at a fast pace is what the industry demands from IT professionals today. However busy work schedules, far-flung locations, and unavailability of convenient time-slots pose as major barriers when it comes to applying the concepts into realism. And hence the need to look out for alternative means of implementation in the form of laddered approach.

The above truly pose as constraints especially for our students too! With their busy schedules, it is indeed difficult for our students to keep up with the genuine and constant need for integrated application which can be seen live especially so in the field of IT education where technology can change on the spur of a moment. *Well,* *technology does come to our rescue at such times!!*

Keeping the above in mind and in tune with our constant endeavour to use Technology in our training model, we at Aptech have thought of revolutionizing the way our students learn and implement the concepts using tools themselves by providing a *live and synchronous eProject learning environment!*

## II. Problem Definition

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.

Our client is a doctor who is one of the famous Cardiac specialists in the country. As he is one of the famous specialists in the country, he generally used to visit some places for operating some patients with some critical cardiac conditions. Also he used to get invitations from various colleges in the country for attending and giving the seminars, also he runs a college, which is one of the famous Medical colleges in the country.

Actually he wants an online application such as a discussion forum for the doctors in the world, so that if any one is having any queries (for the junior doctors, etc.) or to discuss some new cases in different fields. He wants this application to be developed as this can bridge the gap between the various doctors available in the world and can know each other through this portal. Also in case of any emergencies or for some special cases one can go through the application and search for the various doctors based on the specialization and the location which ever is suitable so that so many people s lives can be saved

|  |  |  |
| --- | --- | --- |
| **1.2.**  **personal page** | R1: Personal information can be edited and updated  R2: Allow others to see personal information  R3: Manage posts that can be edited or deleted  R4: Status updates allow others to see you online or offline  R5: Change the password | R1: User's information can be viewed.  R2: Posts may be deleted when they do not meet community standards.  R3: Can manage user post comments on profile. |
| **1.3. Chat channel** | R1: You can chat with the doctor you want  R2: Can discuss different topics together.  R3: Can search the chat | R1: Can see all chats.  R2: Chats can be made available if requested by the authorities.  R3: Can delete channels |
| **1.4 Forum to post information** | R1: Posts can be posted on the forum.  R2: You can comment and discuss the post.  R3: You can delete your own posts on the forum.  R4: Easily view all the latest posts of the day | R1: Posts can be removed upon request or in violation of community standards.  R2: Posts can be viewed and managed on the forum. |
| **1.5 Appointment** | R1: User can add new doctor appointment  R2: User can cancel appointment  R4: Manage new reasons for appointments  R5: Manage email to receive appointment  R6: Appointment management | R1: Access the appointment management page.  R2: None |
| **1.6 Change Password** | R1: Visit Change Password page.  R2: Change Password by filling in account information.  R3: Password changed. | R1: Visit Change Password page.  R2: Change Password by filling in account information.  R3: Password changed. |
| **1.7 Register** | R1: Visit Register Page.  R2: Filling in customer account information.  R3: Customer Account created. |  |
| **1.8 Sitemap** | R1: Visit Sitemap Page at footer.  R2: Can view the page sitemap. | None |
| **1.9 Contact us** | R1: Visit Contact Page.  R2: Can view contact information. | R1: Visit Contact Page.  R2: Can edit contact information. |
| **2.0 Find Doctor** | R1: Can search for doctors by specialty and location |  |
| **1.9 Contact us** | R1: Visit Contact Page.  R2: Can view contact information. | R1: Visit Contact Page.  R2: Can edit contact information. |

### 2. Non-functional Requirement Specifications

R1. Good using Interface and Experience.

R2. Clean code.

R3. Try hard to improve the performance.

R4. Try this website to run on all browsers.

R5. Try to limit bugs on this website.

### 3. System Requirement Specifications

**3.1 Server Requirement:**

* Hardware:
* Component CPU:
  + Processor type:
  + Pentium IV-compatible processor or faster
  + Processor speed: Recommended: 2.0 GHz or faster
* OS:
  + Microsoft Windows XP or higher with IIS
* Memory (RAM):
  + Minimum: 512MB
  + Recommended: 2GB or more
* Hard Drive:
  + Minimum: 200 MB
  + Recommended: 50 GB or more
  + Maximum: Operating system maximum
* Software:
* ASP.NET Core Version .NET Core 6.0
* RDBMS SQL Server

**3.2 Client requirements:**

* Hardware:
* Component CPU:
  + Processor type:
  + Pentium IV-compatible processor or faster
  + Processor speed: Recommended: 2.0 GHz or faster
* OS:
  + Microsoft Windows XP or MacOS …
* Memory (RAM):
  + Minimum: 512MB
  + Recommended: 2GB or more
* Hard Drive:
  + Minimum: 512MB
  + Recommended: 1 GB or more
* Software:
* Web Browser: Microsoft Edge, Mozilla Firefox, Chrome

**3.3 Development Software:**

* Microsoft SQL server Management Studio
* Microsoft Visual Studio 2022.
* Microsoft Visual Code

**3.4 Technology:**

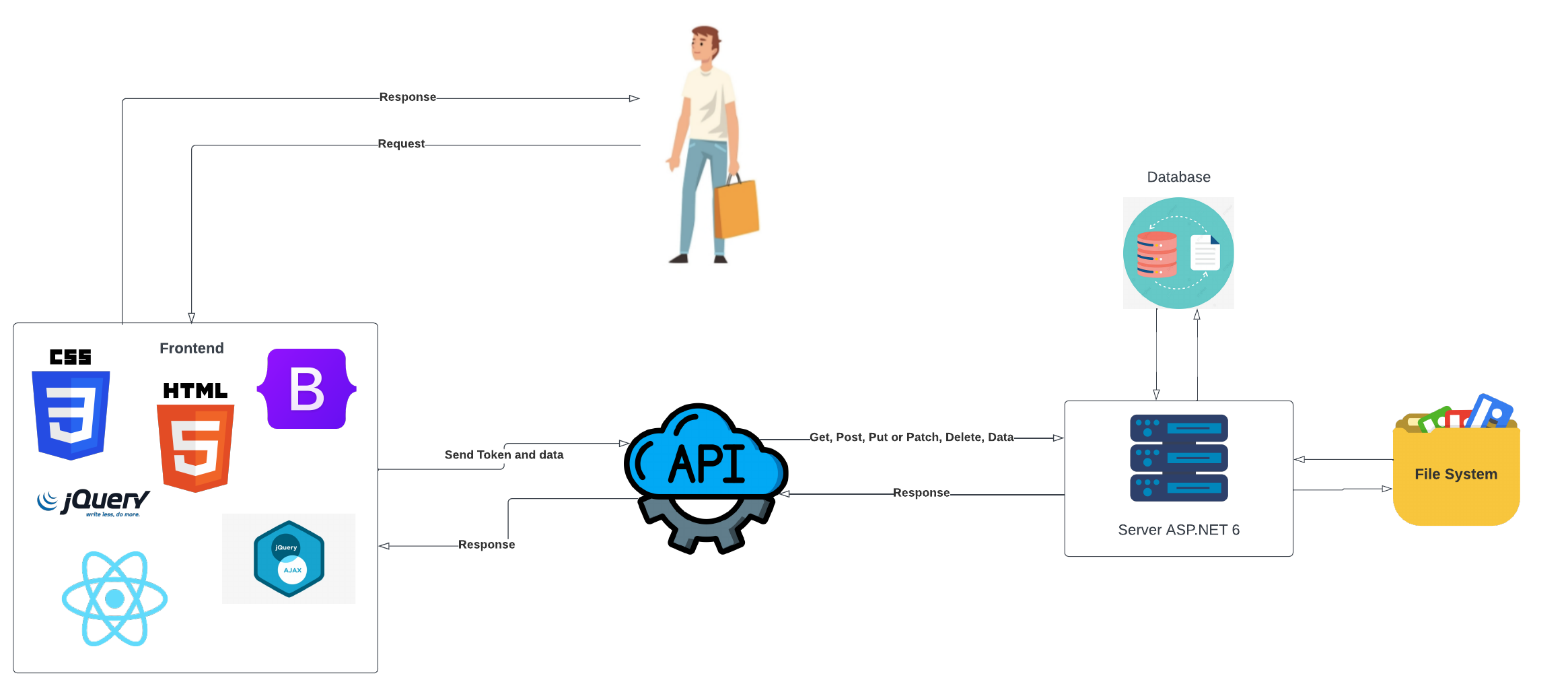
* ASP.Net Core 6.0

Entity Framework Core 6.0.7

# 

# REVIEW 2

# Architecture & Design of the Project



## 1.Presentation Tier

* + - 1. This is the tier in which the users interact with applications. Presentation Tier contains Model, View, Controller used to receive a request and response to User.
      2. Technology: ASP.NET CORE 6 WEB API MVC, HTML, CSS, JS, REACTJS

## 2.Business Logic Tier

* + - 1. Is mainly working as the bridge between Data Tier and Presentation Tier. All the Data passes through the Business Tier before passing to the Presentation Tier.
      2. Technology: OOP, ASP.NET CORE API

## 3.Data Access Tier

* + - 1. This is basically the server which stores all the application’s data. Data tier contents Database Tables, Database Views and other means of storing Application’s data.
      2. Technology: SQL Server

# Algorithms – Data Flowchart

## 1.Symbols generates A picture containing text, businesscard Description automatically generated

### 

## 2.Login (all users) Diagram Description automatically generated

## 3.Logout (all users)

## A picture containing text, window, indoor Description automatically generated

## 4.Post

## 

## 5.Chat(All user)

**Diagram

Description automatically generated**

### 

## 

## 

## 

## 

## 

## 

## 

# Use Case Diagram

## 1.User:

## Diagram Description automatically generated

## 2.Admin:

## Diagram Description automatically generated

## 

# 

# REVIEW 3

# Database Design Diagram

## Diagram Description automatically generated

## 

# GUI Design

## Employee

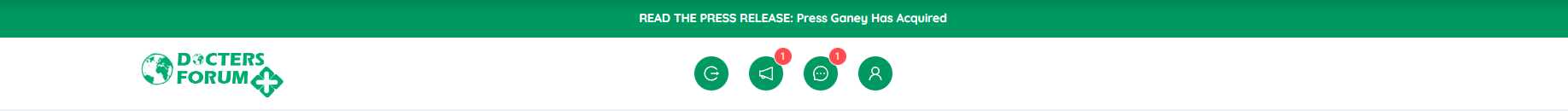
#### **Login**

Graphical user interface

Description automatically generated

## Customer

#### Header



|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No.** | **Name** | **Validate** | **Type** | **Event** | **Description** |
| 1 | Login | Not Validate | Button | Click | Login |
| 2 | Logout | Not Validate | Button | Click | Logout |
| 3 | Notification | Not Validate | Link | Click | Click to go to Notification |
| 4 | Chat | Not Validate | Link | Click | Click to go to Chat page |

#### Footer

Graphical user interface, application

Description automatically generated

#### Home Page

Graphical user interface

Description automatically generated

#### Introduce

Graphical user interface, text, application

Description automatically generated

#### Change Password

Graphical user interface, text, application, email

Description automatically generated

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No.** | **Name** | **Validate** | **Type** | **Event** | **Description** |
| 1 | Password | Required | Textbox | On Type | Current password |
| 2 | Change password | Must be 8 characters including one uppercase letter, one lowercase letter, and one number or special character | Textbox | On Type | New password |
| 3 | Confirm password | Must be 8 characters including one uppercase letter, one lowercase letter, and one number or special character | Textbox | On Type | Confirm new password |

#### Signin

Graphical user interface, website

Description automatically generated

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No.** | **Name** | **Validate** | **Type** | **Event** | **Description** |
| 1 | User name | Required | Textbox | On Type | Customer User |
| 2 | Password | Required | Textbox | On Type | Customer password |
| 3 | Signin | Not Validate | Button | Click | Go to Register page |

#### Sign Up

Graphical user interface, application, website

Description automatically generated

#### Security Settings

Graphical user interface, text, application, chat or text message, email

Description automatically generated

#### Notifications

Graphical user interface, text, application

Description automatically generated

#### Chat

#### Graphical user interface, text, application Description automatically generated

#### Forgot PasswordGraphical user interface, website Description automatically generated

#### Rules of the Doctor Forum Page

Graphical user interface, text, application, email

Description automatically generated

#### Comments

Graphical user interface, text, application, email

Description automatically generated

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No.** | **Name** | **Validate** | **Type** | **Event** | **Description** |
| 1 | Create Comment | Not Validate | Button | Click | Click to go to Create Comment |

#### Appointment

Graphical user interface, application

Description automatically generated

#### Appointment-management

Graphical user interface, application

Description automatically generated

#### Contract

Graphical user interface, website

Description automatically generated

#### Customer profile

Graphical user interface, text, application, email

Description automatically generated

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Name** | **Type** | **Event** | **Description** |
| 1 | Customer profile | Href | Click | Customer Profile Details after Customer login |

#### Ceate Appointment Reason

Graphical user interface, application

Description automatically generated

# Task Sheet Review 3

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Project Title:**  Doctor Web Forum | | **Activity Plan**  **Prepared**  **By:** | | **Date of Preparation of Activity Plan:** | | | |
| **Sr. No.** | **Task** | **Actual Start**  **Date** | **Actual**  **Days** | **Team**  **Mate**  **Names** | **Status** |
| 1 | Database Design | Nguyen Ngoc Truc Linh | 24 Feb 2023 | | 1 | All members | Completed |
| 2 | GUI Design | 24 Feb 2023 | | 1 | All members | Completed |
| 3 | Entity | 24 Feb 2023 | | 1 | All members | Completed |
| 4 | Task sheet review | 24 Feb 2023 | | 1 | All members | Completed |
| 5 | Authentication Page (APP + API): Login, Register, Forgot Password | Nguyen Xuan Loc | 23 Feb 2023 | | 3 |  | Completed |
| 6 | Account Page (APP + API): Edit Information, Change Password, Edit State Account, Automatically remind patients to come to the clinic, Send Email | Nguyen Van Bao | 23 Feb 2023 | | 1 |  | Completed |
|  |  |  |  | |  |  |  |
| 7 | Appointment Page (APP + API): Email Receiver Request, Add, Edit, Delete, Send email hour before the appointment starts, Edit State Enabled or Disabled | Nguyen Ngoc Truc Linh | 23 Feb 2023 | | 3 |  | Completed |
| 8 | Appointment Page (APP + API): Appointment reason, Add, Edit, Delete  Edit Prevent appointment every day, Edit State Enabled or Disabled | Nguyen Thanh Huy | 23 Feb 2023 | | 3 |  | Completed |
| 9 | View Profile Page (APP + API): List All Post in Forum, Show information, Edit Post, Delete Post | Nguyen Xuan Loc | 24 Feb 2023 | | 3 |  | Completed |
| 10 | Home Page (APP + API): Display All Topic, Display New Post, Show Forum Statistics, Show Online member | Nguyen Thanh Huy | 26 Feb 2023 | | 2 |  | Completed |
| 11 | Detail topic Page (APP + API): Show All Topic Of Parent Topic, Show List Post Of Topic, Create Post | Nguyen The Vinh | 23 Feb 2023 | | 3 |  | Completed |
| 12 | Detail Post Page (APP + API): Comment In The Post, Reply Comment, Delete Comment, | Nguyen Van Bao | 27 Feb 2023 | | 1 |  | Completed |
| 13 | (APP + API) Feature Create A Chat RealTime With User, Find a doctor urgently | Nguyen Van bao | 28 Feb 2023 | | 3 |  | Completed |
| 14 | API Create SpecialtyDoctor, Get Specialty, Delete Specialy | Nguyen Thanh Huy | 28 Feb 2023 | | 2 |  | Completed |
| 15 | (App + API) Admin: Dashboard, Login Admin | Nguyen Ngoc Truc Linh | 26 Feb 2023 | | 2 |  | Completed |
| 16 | Admin Page (APP + API): Management Account, Management Specialty, Admin Accept Specialty | Nguyen Xuan Loc | 26 Feb 2023 | | 3 |  | Completed |
|  |  |  |  | |  |  |  |
| 17 | Admin Page (APP + API): Manage Post, Detail Profile | Nguyen The Vinh | 26 Feb 2023 | | 3 |  | Completed |
| 18 | Admin Page (APP + API): Manage Topic, Accept Member Create Post In A Topic | Nguyen Van Bao | 02 Mar 2023 | | 1 |  | Completed |

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| --- | --- |
| **Signature of Instructor**    **Mr. Tran Phuoc Sinh** | **Signature of Team Leader**    **Nguyen Van Bao** |