



Sri Lanka Institute of Information Technology

# Health Care

Programming Applications and Frameworks

(IT3030)

**Project ID: Group S1031.8**

Individual Report:

Registration Number: **IT17126298**

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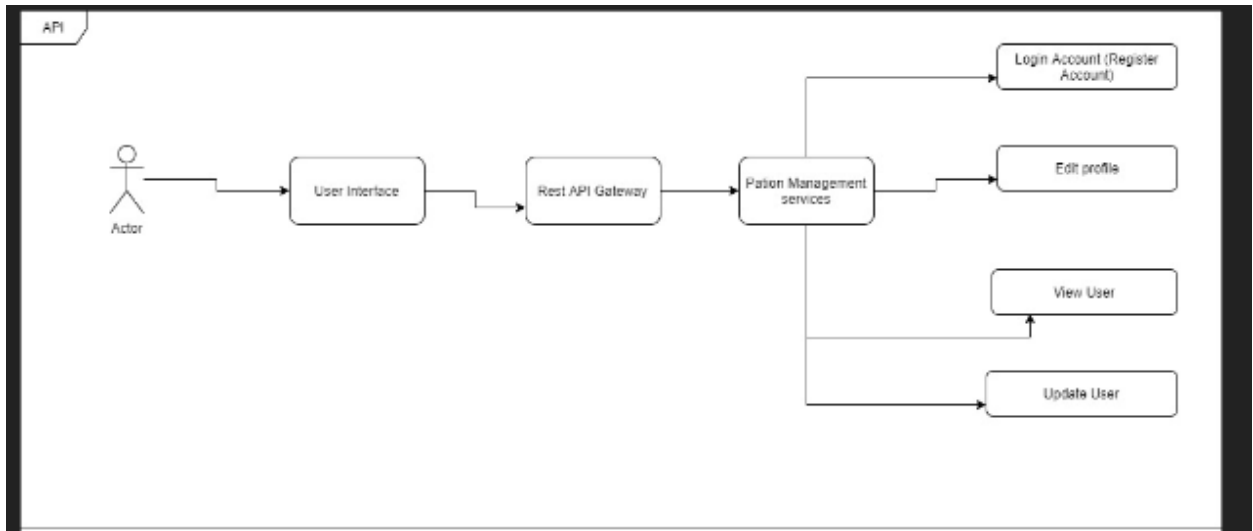
Workload: **Patient Management (function)**

## [01] Patient Management System: -

### Patient Management (Insert/Update/Delete/View)

- In this function I hope to develop user registration. within the user can register to the system by filling all the details. After that user can get own username and password. Using that user can access to the system. Without having an account user can't get appointment to consult doctor.

### API of the service

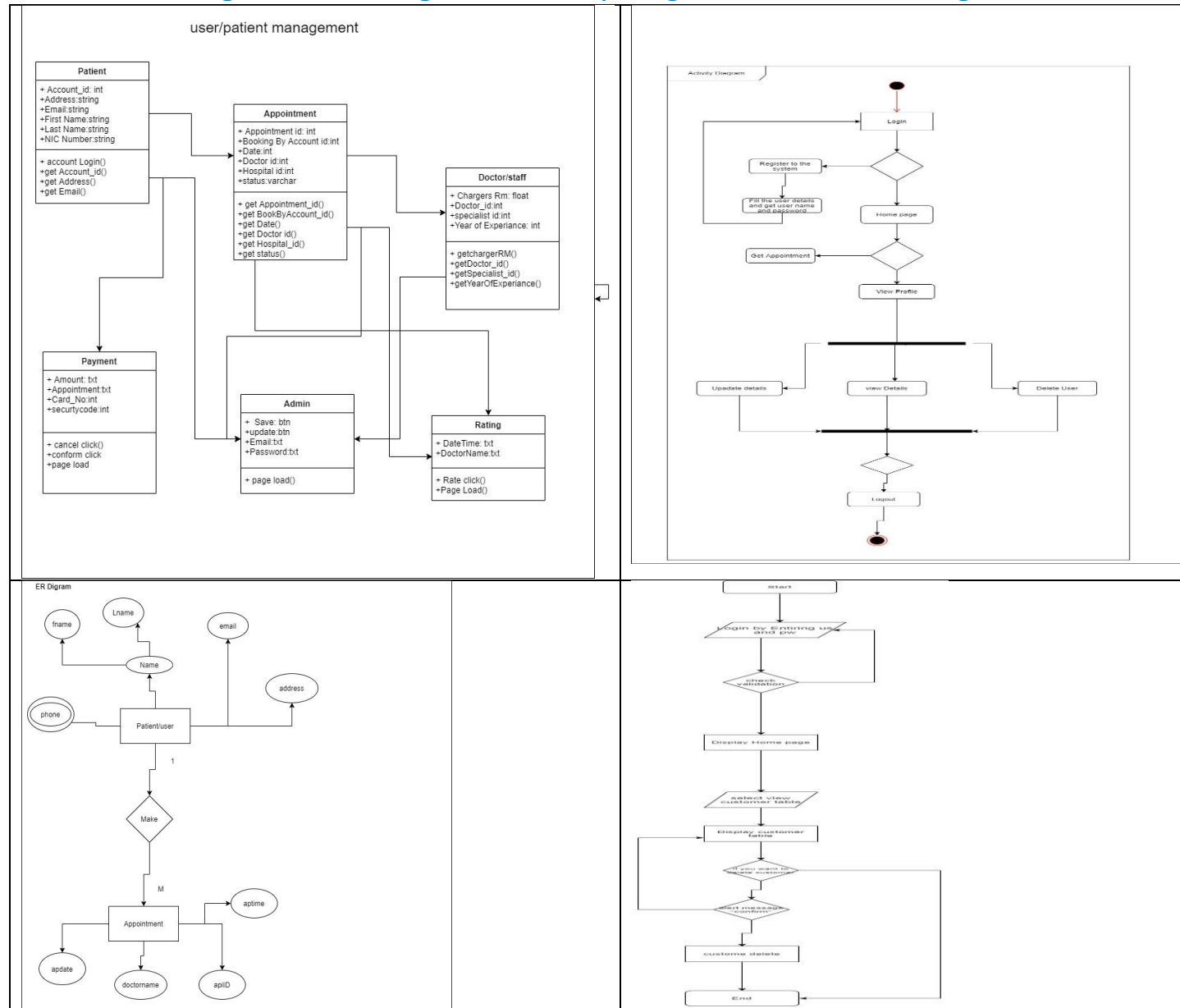


- The API diagram is designed to this health care system depicts how the web service is exposed to users via a restful API

### Tool Used

	Tool Used	Reason
Front-end	HTML , CSS	Creating user interface
Back-end	JAVA	Easy configuration
Database	My SQL	Create and connect is easy
Server	Tomcat Server	Easy to configuration
Build Tool	Maven	Knowledge gathered at lab session
IDE	Eclipse	IT is easy to work

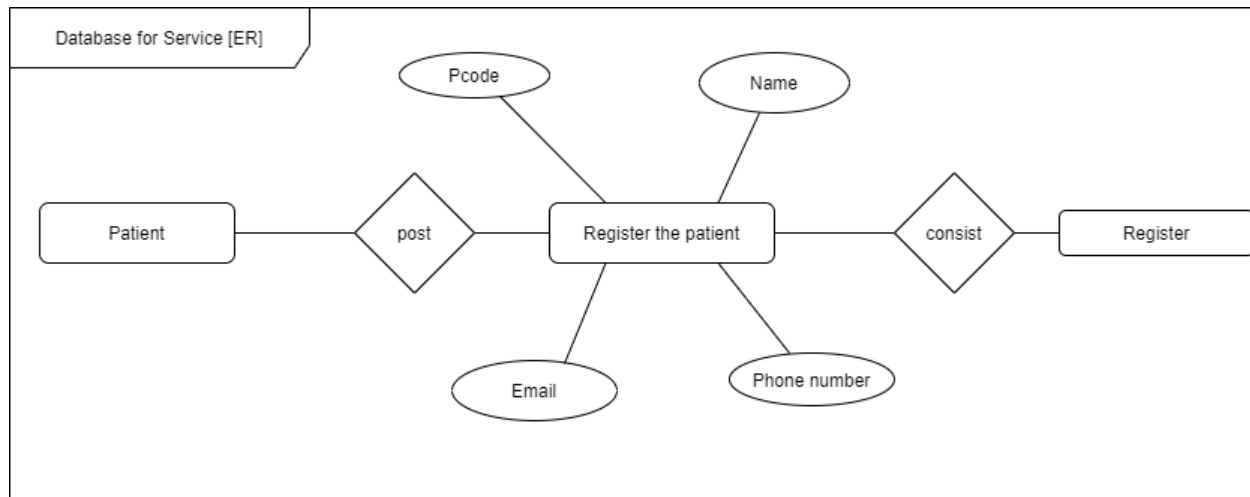
## [02] Internal logic :- Class diagram, Activity diagram, Flow chart diagram



### [03] Server Development and testing

No	Test description	Test input	Exception Output	Actual Output
01	Register the patient (fill the form)	Fine:-	"Please fill out this field"	"Please fill out this field"
02	Add Email of Patient	Email: - dangamil.com	"Invalid email address"	"Invalid email address"
03	Remove Patient Invalid Details	Click the Remove button in Patient details page	"Delete Successfully"	"Delete Successfully"
04	Update Patient Details	Phone Number: Change the phone number	"Update successfully"	"Update successfully"

### [04] Database For the Server [ER]



## [05] Tool used and Testing methodology and results.

**Html, CSS, Bootstrap:** One of the recognized **methods** used for **front-end** web service development.

**Java, SQL:** One of the best methods for **back-end** development is Java, which is a platform

oriented technology. SQL is used for database queries; this is also one of the recognized technology. **jQuery, Ajax for DC** is one of the powerful **frameworks**, which provides many solutions for common problems in Java EE applications. It supports for managing health care services objects and exposing their services to the presentation tier.

**Eclipse** is used as our **IDE** for developing this project, this IDE is selected because our group

members have a good experience with this, debugging, integration and connecting to GIT is

very easy with eclipse IDE.

**PhpMyAdmin** is used as our database, this is one of the simplest databases for small and

medium sized business. One of the best databases which provides a GUI for operations, this

makes our work very easy.

## [06] Assumption and any other relevant discussion on relevant sections.

The patient will be able to easily communicate and share information with the doctor through this web site. Patient or user can register for this app easily.

## [07] Reference:

<https://youtu.be/DWPN45AJA3k>

<https://www.draw.io/>

<https://www.tutorialspoint.com/restful/index.htm>

<https://api.jquery.com/jquery.ajax/>