



# Integrated Design Project

CSE – 460

## USER INTERFACE DOCUMENT

GROUP HOTEL A:

PREDICTIS

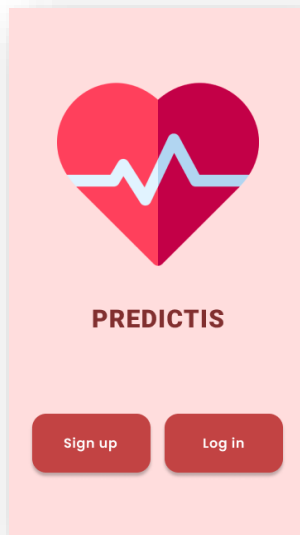
Ser.	ID	NAME
01	201814022	Kazi Rafid Raiyan
02	201814026	Angshu Bikash Mondol
03	201814029	Tasfia Tasnim
04	201814033	Shutonu Mitra
05	201814048	Asima Oshin Putul
06	201814056	M. M. Rushadul Mannan

## Introduction:

The UI of our system is built on android application-based platform. In this case, we have used XML in front-end, Java in the back-end to connect the app with database. The database is created in cloud storage using FireBase.

## Current UI:

- a. The application starts with a landing page. The user selects an option to either signup or login. This mockup page and original pages are same.



- b. The signup and login pages receive email, password. The username and password is stored in the firebase. User can login anytime in the application using these credentials. This mockup page and original pages are same.

The image shows two mobile app screens side-by-side. Both screens have a pink header with the text 'PREDICTIS' and a heart icon. The left screen is titled 'Sign up' and contains three input fields: 'Name', 'Email', and 'Password'. Below these fields is a red 'Sign up' button and a link that says 'login instead?'. The right screen is titled 'Log in' and contains two input fields: 'Email' and 'Password'. Below these fields is a red 'Log In' button and a link that says 'Forgot Password?'.

- c. Authentication is done only once when a user creates a new account.

The image shows two mobile app screens side-by-side. Both screens have a pink header with the text 'PREDICTIS' and a heart icon. The left screen has a white background with the text 'Press the verify button' and 'We will send a verification link to the provided email'. Below this text is a red 'Verify' button. The right screen has a white background with the text 'We have sent an authentication code to your email. Check email.' Below this text is a label 'Enter code :' followed by a text input field. At the bottom of the right screen is a red 'Submit' button.

Figure: Original

Figure: Mockup

### Deviation:

In the mockup, user had to enter a code from the email. But, actually, we are verifying the account with a link sent to the given email.


### Reason:

The mockup process is not user friendly. That is why we are sending a link to keep it simple.

- d. After signing up, email is verified and user gives the profile data.

The image displays two mobile application mockups for an app named 'PREDICTIS'. The left mockup is titled 'Profile Data' and contains the following fields: 'USERNAME' (text input), 'GENDER' (radio buttons for Male, Female, Other), 'AGE' (text input), 'HEIGHT' (text input), 'WEIGHT' (text input), 'OCCUPATION' (text input), 'LIPID' (text input), and 'BLOOD SUGER LEVEL' (text input). The right mockup continues the form with 'WEIGHT' (text input), 'OCCUPATION' (text input), 'LIPID' (text input), 'BLOOD SUGER LEVEL' (text input), 'SMOKING HABIT' (radio buttons for Yes, No), 'FAMILY HISTORY OF CVD' (radio buttons for Yes, No), and 'EMERGENCY CONTACT' (text input). Below these fields are two red buttons labeled 'SUBMIT' and 'LOGOUT'. Both mockups feature a pink header with the 'PREDICTIS' logo and a standard mobile navigation bar at the bottom.

Figure: Original

**PREDICTIS** 

**Profile Data:**

Phone

Age


Height

Weight

Date of Birth

Occupation

**NEXT**

**PREDICTIS** 

**Profile Data:**

Lipid Level

Blood Sugar

Blood Pressure

Smoking

Family History

Emergency contact

**NEXT**

Figure: Mockup

**Deviation:**

The mockup pages are made in two pages but in the original page it is made in one page using scroll down.

**Reason:**

The original page's layout is better than the mockup version.

e. Application has a menu bar where user can select where he wants to go.

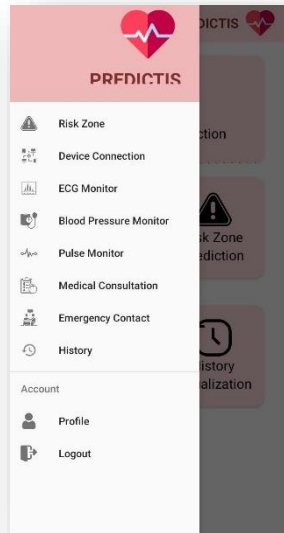


Figure: Original

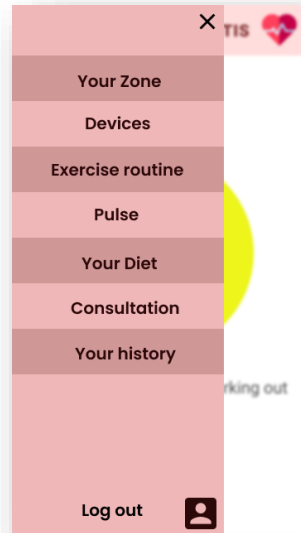


Figure: Mockup

### Deviation:

The mockup menu bar was simple looking, the original one has some new features in it.

### Reason:

Some features were not included in the mockup page which are included in the original page. Also this has icons which makes the app easier to use.

f. When users go to their zone, they can see predicted result.

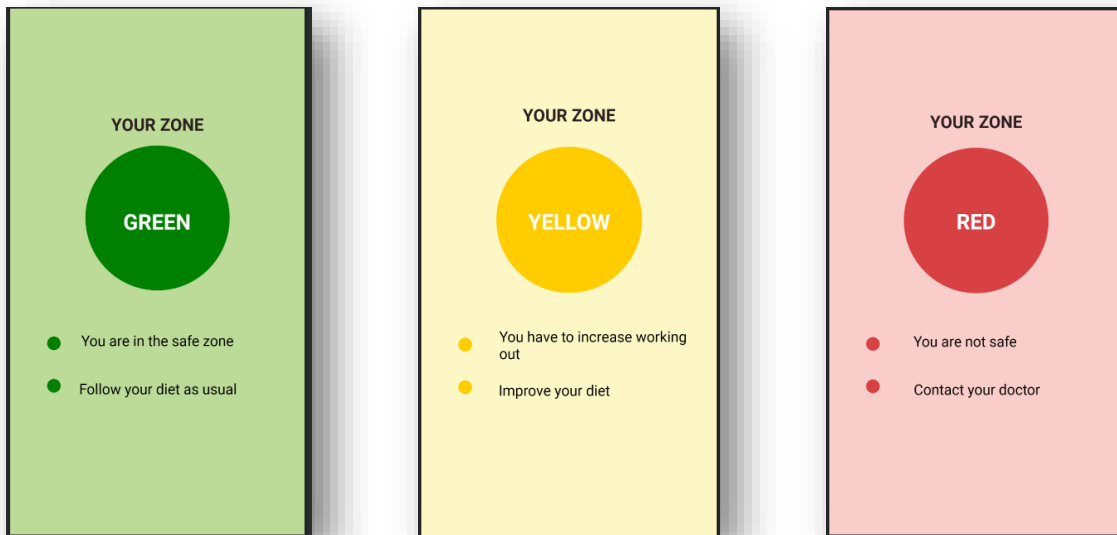


Figure: original

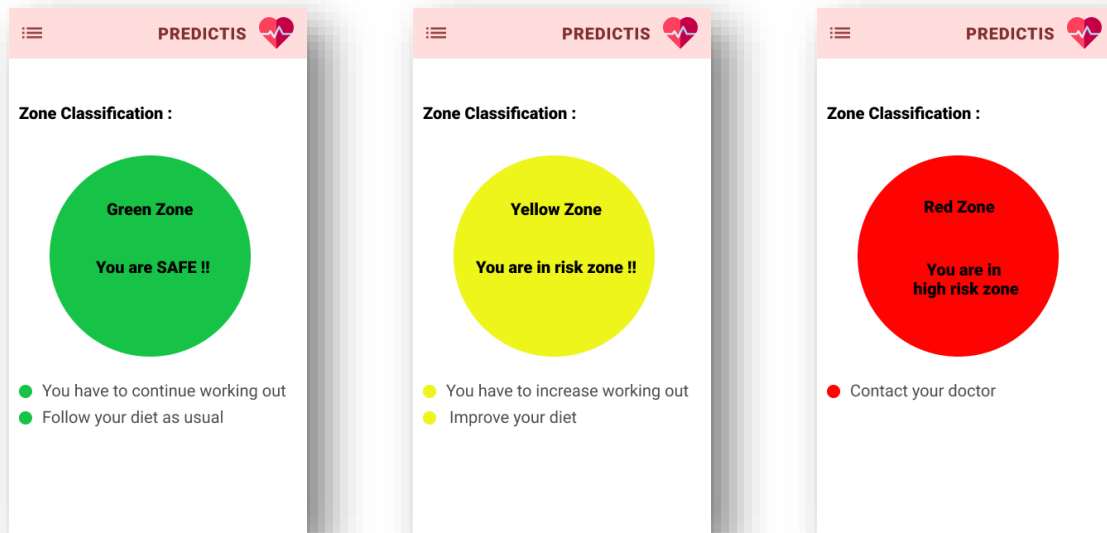


Fig: mockup

### Deviation:

The original pages layout is more aligned.

**Reason:**

It makes the original pages look better.

- g. User can connect their device, watch pulse rate and their health history. The attached pages are mockup pages.

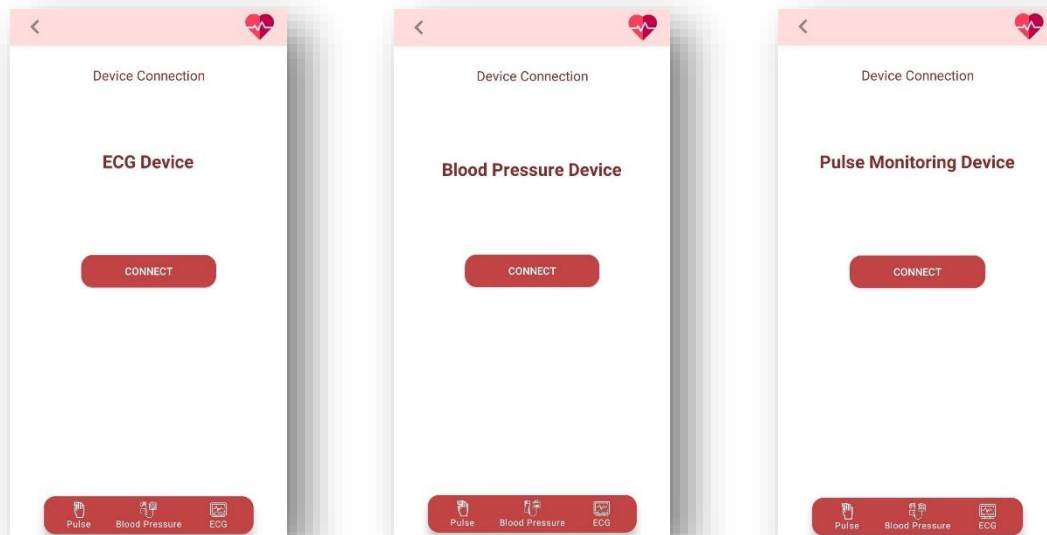


Fig: Original



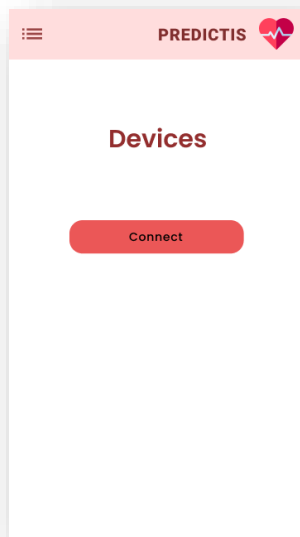


Fig: mockup

**Deviation:**

The original page has connection option for each of three devices (ECG, BP, pulse)

**Reason:**

Initially the total number of devices were not selected, now the final product has three devices.

h. User can check their history in the history page.

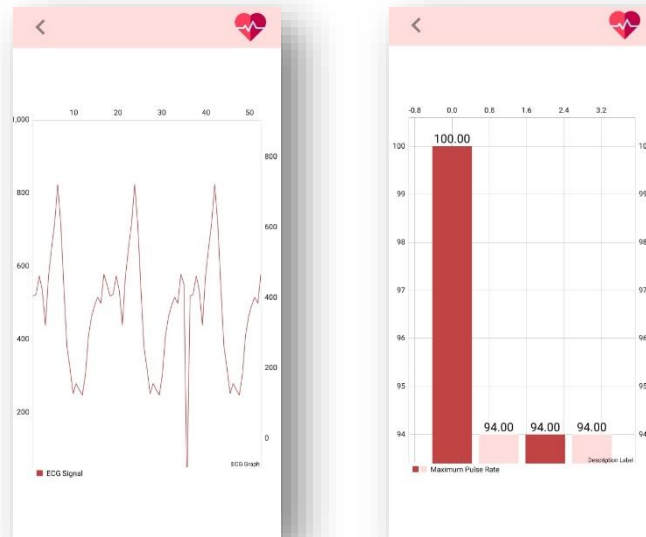


Fig: Original

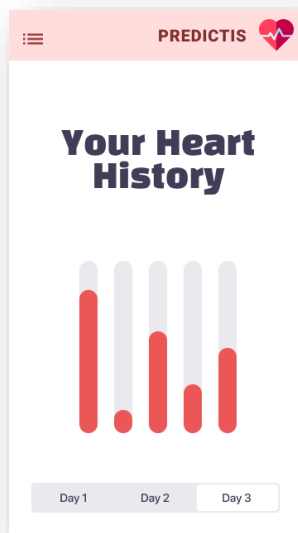


Fig: mockup

### Deviation:

Original has a bar chart for thalach from previous pulse history and Graph chart for ECG.

**Reason:**

History is saved in database and has bigger data than the mockup.

- i. User can watch pulse rate through the app. The original page and mockup pages are similar.

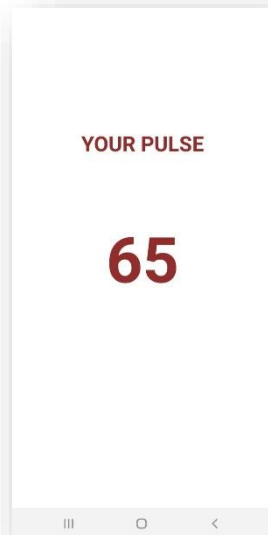


Figure: Original

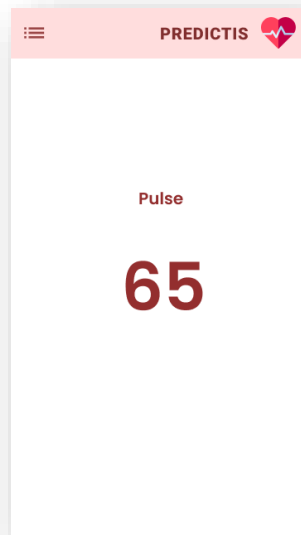
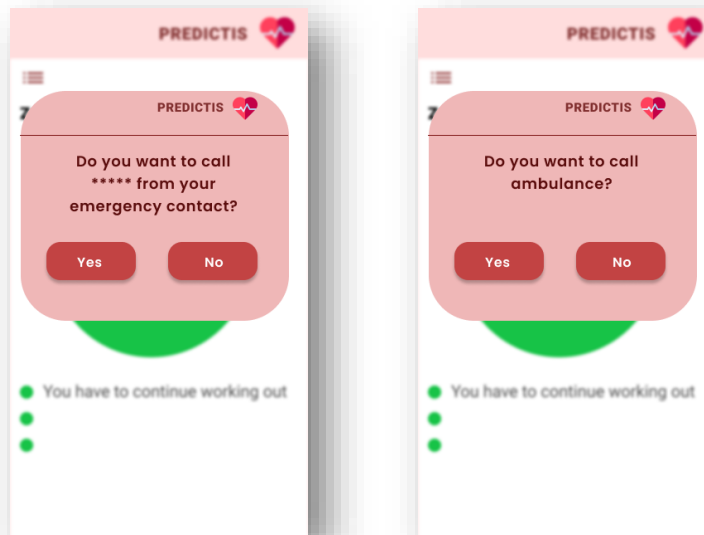
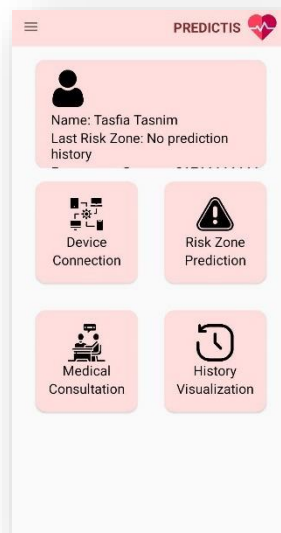


Figure: Mockup

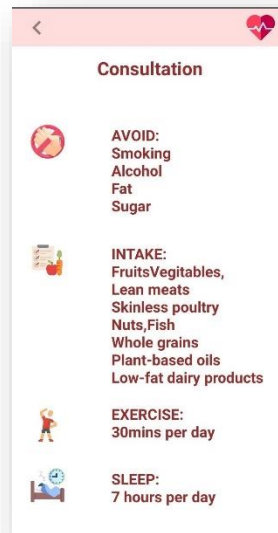
- j. User will see pop up messages when any abnormalities are detected and during emergency. Original pages are same as mockup.



- k. We added some new features given bellow.
- i. Dashboard page comes right after logging in. It contains user's name and previous predicted risk zone.



- ii. Medical consultation page contains suggestions for a healthy heart.



- iii. The blood Pressure Monitor page contains the systolic and diastolic pressure taken from device and it also contains the pulse which updates in real time.

