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SWDV 691: Week 2

Services Design Document

Service Layer: Health Tracker

While this web applications do not have a large number of inputs it does have at least one user input on each test page. Some of the pages where the service layer will be most relevant are the login page, Blood Pressure and Glucose readings, along with the Weight/B.M.I. page. These pages are somewhat similar on how the inputs are done and how they move to the database. The terms it will use in HTTP methods are POST and GET.

- POST will be used to add data from the users input to the database
- GET will be used pull data from the database for the trending graph page.

There are three-service endpoints where users input the data for each of the tests. This is one of the main features of the app, so all potential personas need to be able to understand that interaction is required for this application.

Here are a couple of pages to show as examples.

/blood pressure inputs

A Web Page

https://



Health Tracker

Systolic = Top Number
Diastolic = Bottom Number

Blood Pressure Inputs

Please be sure you are sitting down when taking your blood pressure

Week - 1	<input type="text" value="Enter Systolic"/>	Week - 3	<input type="text" value="Enter Systolic"/>
Week - 1	<input type="text" value="Enter Diastolic"/>	Week - 3	<input type="text" value="Enter Diastolic"/>
Week - 2	<input type="text" value="Enter Systolic"/>	Week - 4	<input type="text" value="Enter Systolic"/>
Week - 2	<input type="text" value="Enter Diastolic"/>	Week - 4	<input type="text" value="Enter Diastolic"/>

```
$user_info = "INSERT INTO bp_readings_jan (BP_Readings_Syst_W1,
BP_Readings_Dia_W1) VALUES ('$_POST[BP_Readings_Syst_W1]',
'$_POST[BP_Readings_Dia_W1]')"; if (!mysql_query($user_info, $connect)) { die('Error: ' .
mysql_error()); }
```

/glucose inputs

A Web Page

https://



Health Tracker

Glucose Inputs

Please be sure you have been fasting for eight hours

Week - 1 Week - 2

Week - 2 Week - 2

```
$user_info = "INSERT INTO glucose_readings_jan (Week_1_reading) VALUES
('$_POST[Week_1_reading]')"; if (!mysql_query($user_info, $connect)) { die('Error: ' .
mysql_error()); }
```

Both these pages would use POST to add the data to the database.

Web application pages

Login page

POST - User name and password

GET - logs user into the system

Blood Pressure inputs page

POST – week-1 Systolic

POST – week-1 Diastolic

POST – week-2 Systolic

POST – week-2 Diastolic

POST – week-3 Systolic

POST – week-3 Diastolic

POST – week-4 Systolic

POST – week-4 Diastolic

Glucose input page

Post – week-1 Glucose

Post – week-2 Glucose

Post – week-3 Glucose

Post – week-4 Glucose

Weight-BMI input page

Post – week-1 Weight

Post – week-2 Weight

Post – week-3 Weight

Post – week-4 Weight

Blood pressure readings

Get – Average readings for a specific month Systolic

Get – Average readings for a specific month Diastolic

Glucose readings

Get – Average readings for a specific month Glucose

Weight-BMI readings

Get – Average readings for a specific month BMI