

# System Design Document

*FeedMe*

**Client:**

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## 1.Introduction

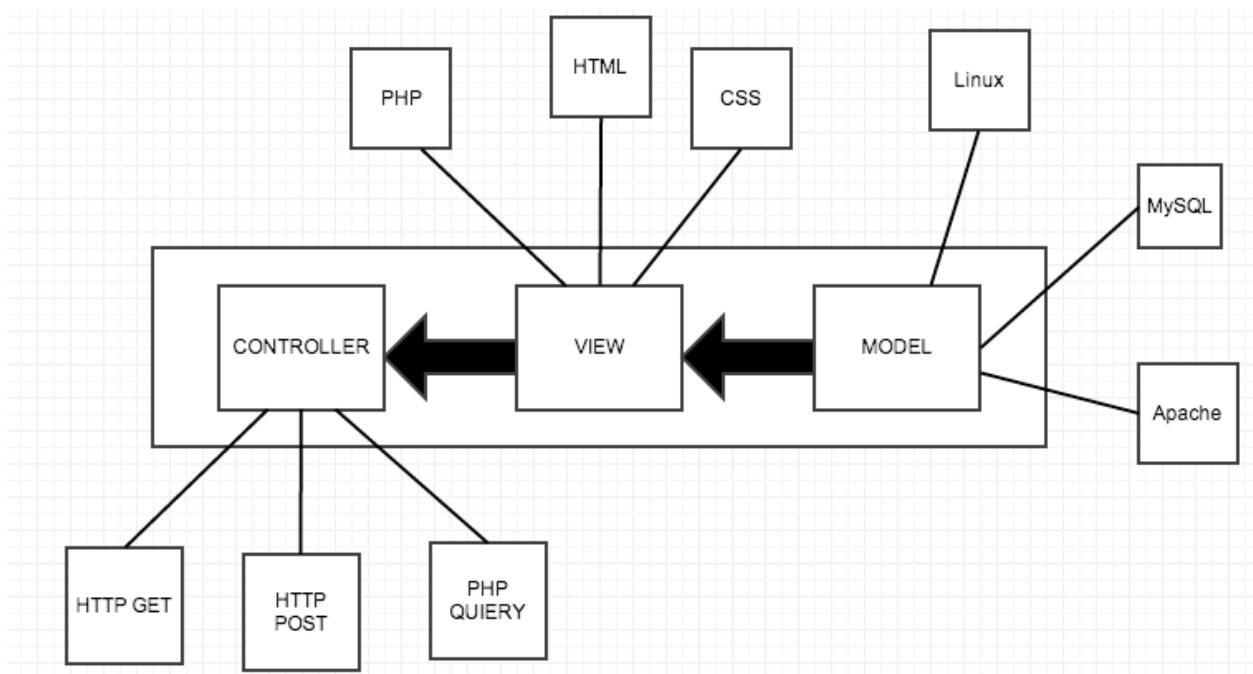
### 1.1 Purpose of This Document

The purpose of this document is to describe the system design of the FeedMe website. Key topics covered in this document include the high level system architecture, lower level class designs, and the persistent data design of FeedMe.

## 1.2 References

## 2. System Architecture

### 2.1 Architectural Design



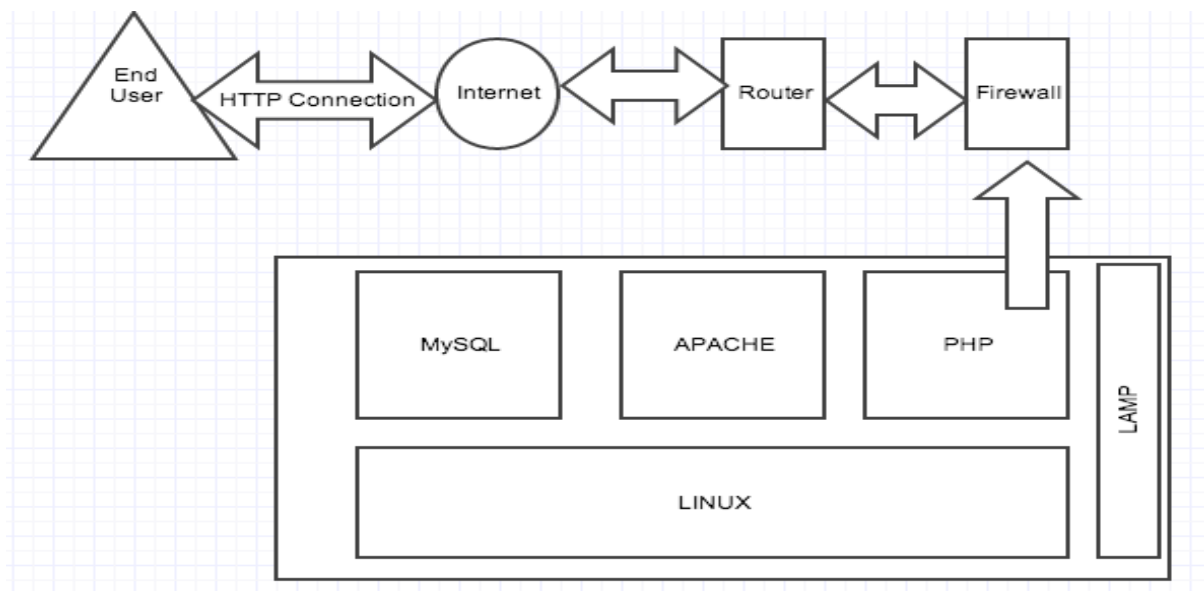
The FeedMe website will be built using the LAMP(Linux, Apache,MySQL, PHP) solution stack. The basic components of LAMP include Models, Views, and Templates, which follows a Model View Controller architecture(MVC).

The model layer consists of the Linux(The operating system),Apache(The web server), and MySQL(The database). All of the data used in our website will be stored on the MySQL server.

The view layer mostly consists of the front-end code involved in the website. HTML and CSS are used to design each web page, and PHP is used to populates the information dynamically into html and then generate the actual html to be sent to the browser.

The controller layer, which talks to the model, would be HTTP GET/POST requests, as well as PHP quieres to our database.

## 2.2 Decomposition Descriptions



With a LAMP stack, your Operating system, Linux, is the base layer. The other three components are installed on the Linux operating system. Apache, your web server sits on top of your OS. Then, the MySQL database stores all the information served by your webserver (User/Web data), and PHP is used to drive and display all the data, and allow for user interaction. In relation to FeedMe, all of the web pages are dynamic, so PHP scripts send the data from the MySQL database to the website, which will be formatted by HTML and CSS code.

Each time a user is taken to a new page on FeedMe, an HTTP request is sent and a HTTP response is sent back. The Register page currently takes the information entered into the data boxes (Name/Username/Password/Years at UMBC) and is added to a table on the MySQL database. Then, a user can enter those credentials on the Login page and be successfully logged into the site. To accomplish this, the Login page sends a query to our SQL database to see if there is a match for the entered credentials. If the entered information is invalid, the user will be told and the Login process will fail.

In our final sprint (Spiral 3), the search bar will return the result of a query of all the web pages that have to do with the searched tag.

## 3. Persistent Data Designs

### 3.1 Database Descriptions

**\*\*See DatabaseDesign.pdf\*\***

#### Users Table

Column	Type	Null
member_id	int(11)	No
email	varchar(64)	No
firstname	varchar(100)	No
lastname	varchar(100)	No
login	varchar(100)	No
passwd	varchar(32)	No

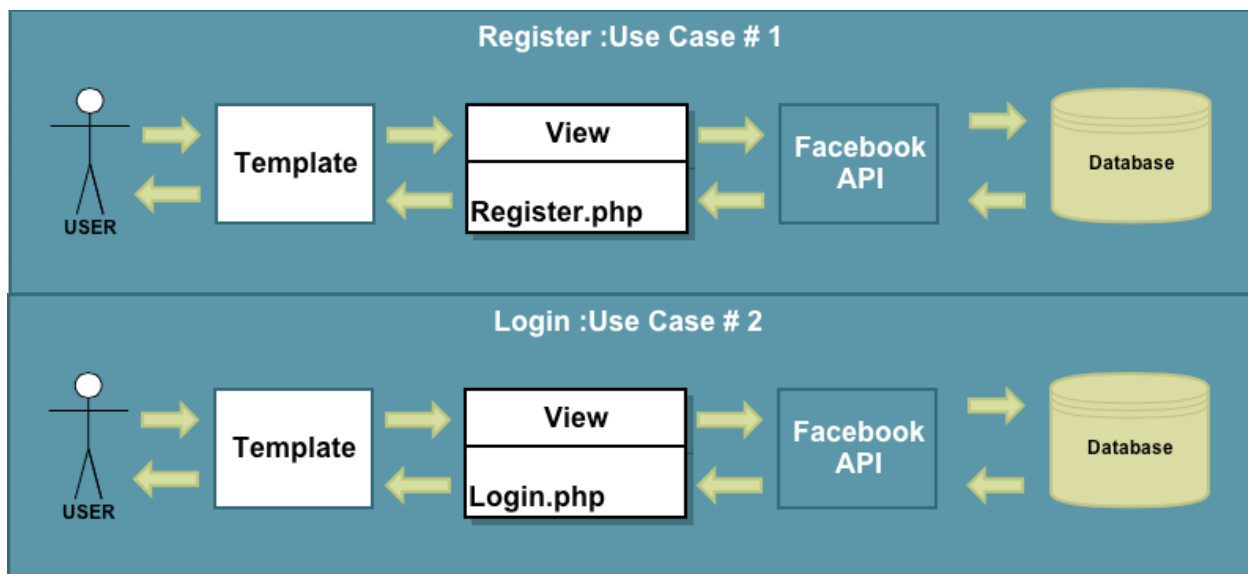
### 3.2 File Descriptions

Code Description Table		
#	File	Brief Description
1	index.php	Make sure homepage content is displayed properly and all links work
2	register.php	Frontend for register page for new users Form
3	registerexec.php	Handles the registration logic for new users, makes sure all fields are valid, escapes all strings, writes to database
4	login.php	Login form for users (frontend)
5	loginexec.php	Handles login logic
6	logout.php	Terminates the login session.
7	submitReview.php	modal dialog (form) used for submitting a restaurant review
8	submitReviewexec.php	Handles the logic to submit a review and add it to the database
9	restaurant.php	Make sure restaurant info is displayed properly and reviews show up
10	restaurantTimeLine.php	populates the restaurant reviews for a given restaurant
11	password.php	compatibility library to handle password hashing/verifying
12	dbconnect.php	creates a database connection
13	profile.php	Contains the logged in user's profile information
14	profileexec.php	Handles the logic for updating a logged in user's biography
15	confirm.php	Handles logic for email confirmation for a user

16	restaurantComment.php	Displays the comments on a particular review
17	search.php	Handles the search requests and forwards them to the appropriate filters to do the searching
18	searchrestaurants.php	handles the logic for searching a restaurant and displaying it
19	searchreviews.php	handles searching for reviews and displays results
20	searchusers.php	handles searching for users and displays results
21	moderate.php	php code for flagging and banning
22	moderatehelper.php	javascript functions to help with moderation
23	vote.php	php code to handle upvotes/downvotes
24	css	style sheets
25	js	javascript files for special functions
26	scripts	contains php helper functions
27	img	contains images/icons
28	fontawesome4.0.3	font pack for some of our icons

## 4. Requirements Matrix

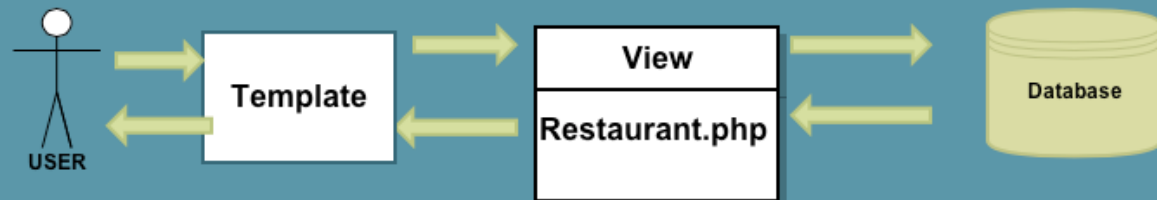
Please refer to the System Requirements Specification for details regarding the corresponding use cases.



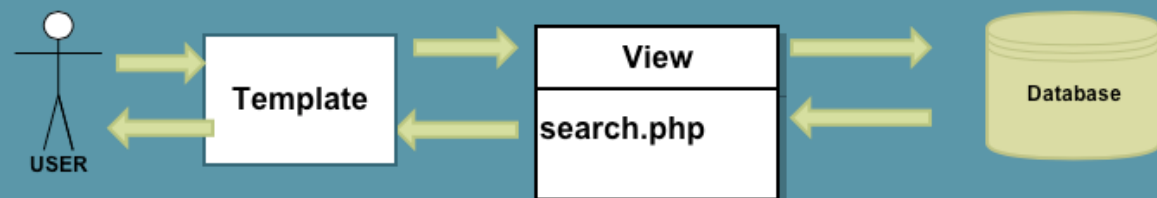
### Logout :Use Case # 3



### Submit Review: Use Case # 4



### Search: Use Case # 5 (Spiral 3)



### Rate a Review: Use Case # 6 (Spiral 3)



### View User Profile: Use Case # 7



## 5. Appendix A – Agreement Between Customer and Contractor

By the end of Spiral 1, The customer requested that we have the login and register process/web pages working. See System Requirements Specification for more information. Additional features will be provided in further development spirals.

When and if future changes to this document occur a drafted new document will be created. Both a hard and electronic copy of both versions will be presented to the client for review. Upon approval, the draft will be finalized and signed off by both parties.

### Client

Name \_\_\_\_\_ Date \_\_\_\_\_

\_\_\_\_\_ Print

Name \_\_\_\_\_ Date \_\_\_\_\_

\_\_\_\_\_ Signature

## 6. Appendix B – Team Review Sign-off

All team members have reviewed this document and agree on both the content and the format. Any disagreements or concerns are addressed in team comments below.

### Team

Name \_\_\_\_\_ Date 4-29-14

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Name \_\_\_\_\_ Minhaz Mahmud \_\_\_\_\_ Date 4-29-14

\_\_\_\_\_ Minhaz Mahmud \_\_\_\_\_ Signature

Comments:



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Comments

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**Name** \_\_\_\_\_ **Date**

\_\_\_\_\_ **Signature**

**Comments**

## **7. Appendix C – Document Contributions**

Giancarlo Mogliazzi is the owner of this document.  
Minhaz Mahmud - added file and database information