

Requirements Document for Eminum

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1 Introduction

The “Eminu” is a free-to-download application that aims to help people find the best restaurant based on the user’s price range and other specifications like rating, location distance, type of food, and other personal food caveats. The application has the ability to display the menu, reservation, and detailed information about the selected restaurant. Our goal is to have the most accurate and up to date information. For this, any restaurant can provide their information using a web-portal. The administrator will have the ability to verify the accuracy of the information, the restaurant’s owners and the user’s information. Eminu requires the use of internet and location service to fetch the data to the database. The software can interact with the user’s phone GPS-Navigator, which allows the user to view the desired restaurant and navigates to it.

2 Glossary

Term	Definition
Administrator	System administrator who is given specific permission for managing and controlling the system.
Application Store	An installed application on mobile phone that helps user to find new compatible applications with mobile phone platform and downloads them from Internet.
Database	A structured set of data held in a computer.
Restaurant Owner	A person who owns the restaurant and provides the restaurant information to the server.
GPS	Global Positioning System.
GPS-Navigator	An installed software on the phone which provides GPS connection and data, show locations on map, and find paths from current position to defined destination.
Stakeholder	Any person who has interaction with the system who is not a developer.
User	Someone who interacts with the phone application.
Web-Portal	A web application that presents special facilities for restaurant owner and administration.

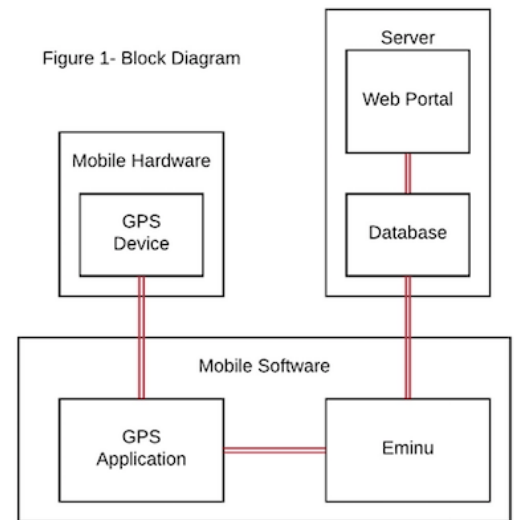
3 General Knowledge

Eminum can be used everywhere that have Internet access, for any users wish to find the perfect restaurant for them.

3.1 Functionality

The software will have two parts: a mobile application and a web portal. The web portal will be used for managing the information about the restaurants and the software as a whole while the mobile application will be used to find restaurants and view information about them.

The communication between the mobile application and GPS is essential. This allows the user to access the distance and location of the restaurants. In order to enhance the user experience, this GPS feature will be embedded into the application. This is a data-centric product, therefore storing data is very important. A database, MySQL will be used for this application. MySQL will allow the web portal to add and modify the data, while restricting the mobile application to only have the ability to access the database to get the data.



3.2 Limitation

The mobile application has some restrictions about the resource allocation. To avoid problems with overloading the operating system the application is only allowed to use 15 megabytes of memory while running the application. The maximum amount of hard drive space is also 15 megabytes.

4 Customers and Users

There are three types of users that interact with the system: restaurant owners, administrators and user of the mobile application. Each of these three types of users has different use of the system so each of them has their own requirements.

4.1 Restaurant Owners

The restaurant owners will manage the information about their restaurant through web portal. They will not use the mobile application for this.

4.2 Administrators

The administrators also only interact with the web portal. They manage the information for each restaurant as well as the options for both the mobile application users and the restaurant owners. The administrator will manage the overall system so there is no inaccurate information within the system.

4.3 Users

The mobile application users can only have access to the application to find a restaurant. This allows user to search for restaurants, choose a restaurant from the search, and then navigate to it. In order for the users to get a relevant search result, there are multiple criteria the users can specify and all results matches all of those.

5 The Enviroment

A java application run on IOS 7 or higher and Android lollipop or higher. MySQL database and WebLogic Portal 7.0 are necessary to maintain and control the flow of the information between users, restaurant owners, and the administrators.

6 Tasks and Procedures

6.1 Input Design

With the mobile application, the users will be able to search for restaurants. The result will be based on the criteria the user inputs. There are several search criteria and it will be possible for the administrator of the system to manage the options for those criteria that have that.

6.2 Output Design

The result of the search will be viewed either in a listview or in a map view, depending on what criteria included in the search. The list view will have one list item for each restaurant matching the search criteria and show a small part of the restaurant information so that the user can identify the restaurant.

The map view will show each restaurant location as a pin on the map as well as the user's own location. In both views, the users will be able to either select a restaurant as target destination or get information how to get there, or view the information of a specific restaurant. There will be an additional option for reservation and waiting time if applicable.

The web portal will provide functionality to manage the system and the restaurant information. It will also provide information about the system, such as showing when there is a new update, special offers.

7 Competing Software

- Yelp is arguably the most well known application in this field. It offers millions of reviews and ratings about all the restaurant around the world [1]
- Foursquare allows you to tell the app what your favorite things are and it will tailor its results to your needs, which ensures you'll only see the places you want to see [1]
- Eat24 is the application known for their large pool of delivery restaurants.
- UrbanSpoon lets you compare other restaurants prices and ratings to ensure you get the best deal around your surround [1]
- Eminu is a fresh take on the dining application market. It might not be the largest restaurant service out there but it will have everything you need. It is the Swiss Army Knife of dining app. Functionality range from delivery to reservation.

References

- [1] Sollenberger, R., McCarthy, D., Weiss, D., Cresswell, P., McNett, J., Vorel, J., . . . Shelter, C. (n.d.). Paste Magazine. Retrieved February 05, 2017, from <https://www.pastemagazine.com/>