



American International University-Bangladesh (AIUB)

Department of Computer Science

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Summer 2021

Software Engineering Section: B

Search food and Product system

A Software Engineering Project Submitted

By

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19-40767-2

BSC, CSE

Search food and product.

Overview

The project involves creating a software-based solution to provide an integrated environment for clients to search for food and product through internet, for example by using this system anyone can search for desire food and product and also can order them .in the system user can choose his desire restaurants and also shop for product. The software will show the available shop and restaurant in the 2-3km of user . If the shop or restaurant is closed it will not take any order. The software will estimate the bill of food and product and also any discount if applicable.it also take online payment . Then there will be a deliveryman assign by software and he will deliver the product to user . The software will help to monitor the current location of the delivery man by using real time map.

Justification

1. The main idea is to give an integrated system which will have food and product searching features together. Now people do not have to use two different apps or software!
2. The search system will be one of the best exciting feature which will give people their best desired choices.
3. User can get their favorite restaurants and shops or their desired food and item according to price range or rating of them.
4. User will also get many category to choose from which will make it easier to find what they actually need. Such as best selling category, food category, drinks and dessert category etc.
5. Customers can order their food and item together and save extra delivery charge and the working range of the delivery man will increase and they will get more income by working with us.

Goals

- Create a responsive software where users can have a single interface to search food and products.
- Provide an easy interface for ordering food and item.
- Saves a lot of time and reduces efforts to find food and products.
- Save money and times of user .
- Increasing employee productivity.

Specifications

1. Search module will allow clients to search for desire food and products .
2. A locate module that will allow clients to locate the location of delivery man and also restaurant and shop address .
3. An admin module to view reports on various activities such as late in deliver order, delivery man and product rating , review of restaurant and shop , online help service , software updates, etc.

Objectives

1. Build an easy to use mobile application for easy login of customer and seller .
2. Build a mobile application that will increase employee productivity by allowing easy searches ,rating ,review and updates.
3. Build a mobile application to keep records of previous order for a long period of time as specified by policies.
4. Build a mobile application to provide confidentiality to employee records.

Modules

| Modules/ Work Items | Description |
|------------------------|---|
| User Management | User management module will include all operations related to user accounts – creation, deletion, edits, search and buy. |
| Seller Record Module | This module will include all operation related to seller accounts – creation, deletion, edits, upload , fixing price and offer etc. |
| Reporting | Provide various reports on bookings and accounts. |

Scope

***if any scope changes are required by the client at a later date, then the scope, the time and budget may also change.

| In Scope | Out of Scope |
|--|---|
| Design and development of mobile application management system | Hosting server provision/management |
| Testing of system | Database server provision/management |
| Secure and manageable code | Security for application hosting and/or database server |
| Deployment | Network security |

Risks

Government policy may change requiring changes in the project or abandonment of the project.

Plan of work

A structured project management approach is being followed.

Note: The time allotted here is subject to change based on client availability to give details to project team

| # | Phases | Details | Duration | Cost |
|------------|-------------------|---|----------|-------|
| 1 | Phase 01 | In this phase, the search module will be completed. Clients will be able to only sing up and sign in . | 3 weeks | 10000 |
| 2 | Phase 02 | In this phase, searching desire food and product functions will be added. Clients will be able to search restaurant and product shop . | 3 weeks | 20000 |
| 3 | Phase 03 | Dashboard for generating order .and estimating bill. | 8 weeks | 50000 |
| 4 | Closing things up | Look back at things and determine success level of the project. | 2 weeks | 10000 |
| Total Time | | | 16 weeks | 90000 |

Product development work breakdown (16 weeks)

Traditional waterfall method is used for this breakdown

Note: The time allotted here is subject to change based on client availability to give details/guidance to the implementation team

| # | Phases | Details | Duration |
|------------|-----------------------------|---|----------|
| 1 | Understand requirements | Requirements will be collected and documented in use case format. | 2 weeks |
| 2 | Architecture and design | Architecture of the product will be determined. Detailed design will be created to start the actual development. Technology platform will be decided. Design for data storage (database design) will be created. We will also create an initial test plan and test cases in this phase. | 3 weeks |
| 3 | Coding/Implementation phase | Implementation of the use cases will be done based on established practices and standards. Unit testing may be enforced for cleaner code. | 3 weeks |
| 4 | Testing | Testing will be done based on test plan and test cases. User acceptance testing will be done in closed groups. Bug fixes and regression testing will be done here. | 4 weeks |
| 5 | Deployment | Deploy the system and make it live for general users. | 4 week |
| Total Time | | | 16 weeks |

Related/similar software systems

Food panda, uber eats, pathao food , efood etc.

Project Duration

16 weeks.

Project Start Date

11 June 2021

Payment Plan

1. An advance payment of BDT 10,000 will be required to start the project.
2. The rest of the money must be paid based on phases. Complete payment due for each phase must be paid within 10 days of the completion of the phase.

Other Terms and Conditions

1. The Advance payment becomes non-refundable after two weeks of the project initiation.
2. After the final delivery of the product (completion of all phases), the client will have a window of one (1) month to report any issues that may have been caused by the application programming. These issues will be fixed for free.
3. After the end of one month of free support period after final product delivery, any and all works requested by the client will incur charges on the client based on negotiated pricing.

Signatories