SWE 444 Final Report

**Cover page**

* Project title: PICK A DISH
* Team members:

Asmaa Alrubia - 435200178

Nora Alkhunifer - 435201094

Sara Almeshrai - 435202339

* Section number: 47406
* **Supervisor: Bushra Alkadhi**

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# Abstract

There are number of applications that show people rates and opinion of shops .So if you want to see specific dish you should enters the shop page then search for it which waste your time .For that “Pick a dish” application gives you the ability to browse a dishes from different shops also . The application is designed to be used by any one, there is no specific audience, but it supports Riyadh, Saudi Arabia shops. The app adds the value of application usability to the shops rate’s application market.

# Technical Details (Platform – Language - Tools)

To implement this application we chose Ionic framework which is a complete open-source SDK for hybrid mobile app development. Ionic provides tools and services for developing hybrid mobile apps using web technologies like CSS, HTML5, and Sass. Users can build their apps, customize them for Android or iOS, and deploy through Cordova. We chose this platform instead of others because it is a cross platform and lets us write the same app once for multiple platforms and it recent wide used. The data of the application stores and manages using Firebase real time database. At the end of the implementation we see that ionic framework was a good choice, but for its variety features we must have more time to improve our knowledge in using it.

# Final Product Backlog

## 

## **Original product backlog status**

|  |  |  |  |
| --- | --- | --- | --- |
| **Feature**  **ID** | **Brief Description** | **Status** | **Comment** |
| F01 | The app should display the list of dishes | Delivered |  |
| F02 | The app should display the list of dishes ordered by user choice [rate, price, location]. | Not Delivered |  |
| F03 | The user can filter the displayed dishes based on meetings type e.g.: party, visit a friend. | Delivered |  |
| F04 | The user can filter the displayed dishes based on dish kinds, e.g.: sweet, cake. | Delivered |  |
| F05 | The home page for app should be the list of dishes ordered by default by the highest rating. | Not Delivered |  |
| F06 | The user shall be able to view list of shops and restaurants. | Delivered |  |
| F07 | The user shall be able to filter the shops page based on [location, dessert, ....] | Not Delivered |  |
| F08 | The user can search by name of shop. | Delivered |  |
| F09 | The user can search by name of dish. | Delivered |  |
| F10 | The system shall allow the user to view his/her ratings. | Not Delivered |  |
| F11 | The system shall allow the user to view his/her comments from profile page. | Delivered |  |
| F12 | The system shall allow the user to view his/her liked dishes. | Delivered |  |
| F13 | The system shall determine the user’s current location. | Not Delivered |  |
| F14 | The system shall allow the user to sign up to a new account using a nonexistent username and a password. | Delivered |  |
| F15 | The system shall prompt the user to sign up using his/her email. | Delivered |  |
| F16 | The system shall send an email to the user indicating that his/her registration was successful. | Not Delivered |  |
| F17 | The system shall allow the user to sign in to an existing account using username and password. | Delivered |  |
| F18 | The system shall allow the registered user to view his/her profile. | Delivered |  |
| F19 | The system shall allow the registered user to view comments. | Not Delivered |  |
| F20 | The system shall allow the registered user to add a new dish. | Delivered |  |
| F21 | The system shall allow the registered user to change his/her profile photo. | Not Delivered |  |
| F22 | The system shall allow the registered user to change his/her profile name. | Delivered |  |
| F23 | The system shall allow the registered user to add a bio. | Delivered |  |
| F24 | The system shall allow the registered user to edit his/her bio. | Delivered |  |
| F25 | The system shall allow the registered user to sign out. | Delivered |  |
| F26 | The user shall write a price for the added dish. | Delivered |  |
| F27 | The user shall be able to set a location of shop. | Not Delivered |  |
| F28 | The user shall be able to determine time of opening and closing of shop. | Not Delivered |  |
| F29 | The user shall be able to set a photo for the added dish. | Not Delivered |  |
| F30 | The user shall be able to choose a kind of the added dish. | Delivered |  |
| F31 | The user shall be able to write a kind of the added dish if the wanted kind is not found. | Not Delivered |  |
| F32 | The user shall be able to like the dish to save it in his/her dishes list. | Delivered |  |
| F33 | The user shall be able to rate the dish. | Delivered |  |
| F34 | The user shall be able to choose occasion type for a dish. | Delivered |  |
| F35 | The user shall be able to edit price for a dish. | Not Delivered |  |
| F36 | The user shall be able to edit name for that dish. | Not Delivered |  |
| F37 | The registered user shall be able to add a tip for that dish. | Not Delivered | features with higher priory were default and had many bugs and so took the developers most time |
| F38 | The user shall be able to view dish name, occasion type, price and picture in separate page. | Delivered | “picture in separate page” not delivered |
| F39 | The user shall be able to view dish rating and number of raters. | Delivered |  |
| F40 | The user shall be able to view any shop page to see the details. | Delivered |  |
| F41 | The price should be one decimal numbers. | Delivered |  |
| F42 | Total time of failure status should not exceed 20 minutes per year | Not Delivered | we can't test the feature since it requires a very long time to make sure |
| F43 | The Dish application should not use more than 5% of battery power in two hours' time | Delivered |  |
| F44 | The app must support Arabic and English languages. | Not Delivered | The feature has low priory and so other features were more important to start with |
| F45 | The system shall display welcome slide in the first-time user open the app. | Delivered |  |
| F46 | Create structure of database on fire base. | Delivered |  |
| F47 | Downloaded needed tools and programs to start developing with ionic and angular. | Delivered |  |
| F48 | Download the icons and style for our system. | Delivered |  |

## 

## **New features added to the product backlog**

|  |  |  |  |
| --- | --- | --- | --- |
| **Feature ID** | **Brief Description** | **Status** | **Comment** |
| F49 | User can delete a tip he/she made before | Delivered |  |
| F50 | User can delete a dish he/she added before | Delivered |  |
| F51 | User can edit her/his bio | Delivered |  |
| F52 | User can reset his/her password in case he/she Forgot it | Delivered |  |
| F53 | User can skip registration and login if the user wants to view the app as guest | Delivered |  |
| F54 | User can view a list of his/her added dishes | Delivered |  |
| F55 | Provide a Settings page | Delivered |  |
| F56 | knowledge requirements such as learning how to use firebase required to develop the app. | Delivered |  |
| F57 | knowledge requirements such as learning how to implement using ionic required to develop the app. | Delivered |  |
| F58 | User receives notification  on new updates | Not Delivered | This feature was requested by the  product owner, but we faced a terminal error trying to deliver it |

# System Features

|  |  |  |  |
| --- | --- | --- | --- |
| **Sprint no.** | **Release Date** | **Features** | **Description** |
| Sprint 1 | 5/1/2017 | App design | We chose app colors logo and draw some mockups interface to clearfay future work |
| Register | New user shall be able to register in the system by filling up name, email,  password |
| Login | Registered user shall be able to login in the system by filling up mail, password. |
|
| List of dishes in the app | User shall be able view and brows list of dishes that in app database |
| Sprint 2 | 26/10/2017 | Logout | Logged in user shall be able to logout from the system by clicking in log out button in settings page |
| Reset forgotten password | Registered user shall be able to reset forgotten password by click on forget password from log in page and filling up his/her email, the system will send link to the email to reset the password. |
| View dish page | User shall be able view dish rate, price, name , shop name and dish photo in dish page. |
| Average Rate and raters number in dish of list item | User shall be able view dish rate, price, name and shop name in dish item in dishes list of dishes that in app database |
|  |  | Profile page | Logged in user shall be able view his/her name, bio and avatar from profile page. |
|  |  | Edit profile | Logged in user shall be able to edit his/her name, bio by entering setting page and typing new name and bio then clicking on save. |
| Sprint 3 | 16/11/2017 | Like dish | Logged in user shall be able like dish by clicking on heart icon from dish page. |
|  |  | Rate dish | Logged in user shall be able rate dish by clicking on stars icons from dish page. |
|  |  | Add new dish | Logged in user shall be able to add new dish by typing name, price, type ,occasion and shop in add new dish page. |
|  |  | Add new shop | Logged in user shall be able to add new shop by typing name in add new shop dialog from add new dish page. |
| Sprint 4 |  | Search | User shall be able view and brows list of dishes that in app database based on search result |
|  |  | Tips list | Logged in user shall be able to view added tips in her/his profile as list from title , body and date . |
|  |  | Delete tip | Logged in user shall be able to delete added tips |
|  |  | Go to dish page from tip | Logged in user shall be able to go to dish page from added tip. |
| Sprint 5 | 11/12/2017 | List of shops | User shall be able view and brows list of shops that in app database |
|  |  | List of user added dishes | Logged in user shall be able to view added tips in her/his profile as list from title , body and date . |
|  |  | Filter dish list | User shall be able view and brows list of dishes that in app database based on filter result |

# 

# Acquired Knowledge

We learn:

how to work as team.

work with firebase database

presentation skills

work with ionic and Agular

# Future Work

In the future, we are going to implement number of features which going to make the app more usable e.g.: add dish to liked list, browse specific shop details and build it on IOS and Android.

# Conclusion

In conclusion, Pick a dish application is a dishes and shops rating’s system .It is implemented using Ionic framework and firebase real time database. The purpose of this app is to increase the usability of shops rating’s application by having the feature browse dishes from different shops.