Supervisor :

**Bushra Alkadhi**

By: Sara Almeshari 435202339,

Asmaa alrubai 435200178,

Norah Alkhunifer 435201094,

Ghaliah almutiari 435200467.

Section: 47406

pick a dish application

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# Introduction:

The project goal is to facilitate a dish selection according to the visit or the event when the user is on rush. The application main features are browse dishes by criterion, sorting dishes according to a selected preference, viewing dish reviews and comments, viewing the nearest shops, rating a dish, and adding dishes.

# Product Backlog:

|  |  |  |  |
| --- | --- | --- | --- |
| ID | Feature | Priority |  |
|  | The app should display the list of dishes. | 10 | As a user, I want to see a list of dishes, so that I Browse all the types shown. |
|  | The app should display the list of dishes ordered by user choice [rate, price, location]. | 7 | As a user, I want to Sort the dishes list according to my need, so that I find what I want easily. |
|  | The user can filter the displayed dishes by filters kind of meeting. | 7 | As a user, I want to filter the displayed list by meeting or by kind, so that I Minimize the dishes options. |
|  | The user can filter the displayed dishes by choosing the kind of the dish. | 7 | As a user, I want to filter the displayed list by meeting or by kind, so that I Minimize the dishes options. |
|  | The home page for app should be the list of dishes ordered by most high rating. | 10 | As a user, I want the dishes list ordered by high rating, so that I know what is the best dishes. |
|  | The user shall be able to view list of shops and restaurants. | 5 | As a user, I want to show the restaurants and shops list, so that I see the dishes for that specific shop or restaurant. |
|  | The user shall be able to filter the shops page based on [location, dessert, …] | 7 | As a user, I want to filter the shops list, so that I minimize the shops options. |
|  | The user can search by name of shop. | 9 | As a user, I want to search by shop or restaurant name, so that I save my time. |
|  | The user can search by name of dish. | 9 | As a user, I want to search by dish’s name, so that I save my time. |
|  | The system shall allow the user to view his/her ratings. | 10 | As a user, I want to view my ratings, so that I can save my opinion about specific thing for future needs. |
|  | The system shall allow the user to view his/her comments from profile page. | 2 | As a user, I want to be able to view my comments from my profile page. |
|  | The system shall allow the user to view his/her liked dishes. | 6 | As a user, I want to able to ' like ' mark a dish so that my favorites dishes are arranged'. |
|  | The system shall determine the user’s current location. | 4 | As a user, I want to determine my current location so that I can find which the shops the nearest to me. |
|  | The system shall allow the user to sign up to a new account using a nonexistent username and a password. | 10 | As a user, I want to create account in pick a dish application so that I can use all app's features. |
|  | The system shall prompt the user to sign up using his/her email. | 10 | As a user, I want to create account in pick a dish application using my email so that If I had forgotten my password, I may click on "Forgot Password" to receive instructions via my email on how to reset my password. Or access/delete it |
|  | The system shall send an email to the user indicating that his/her registration was successful. | 3 | As a user, I want to receive successful message, so that’s I can confirm my account via email. |
|  | The system shall allow the user to sign in to an existing account using username and password. | 10 | As a registered User  I want to login by user name and password, so that I can use the password used to authenticate an identity. |
|  | The system shall allow the registered user to view his/her profile. | 8 | As a registered User, I want to able view my profile so that I can see my profile based on my specific info and posts. |
|  | The system shall allow the registered user to view comments. | 9 | As a registered User, I want to view the comments on a dish post so that I can see a random person opinion about that dish. |
|  | The system shall allow the registered user to add a new dish. | 7 | As a logged in user, I want to able to add new dish so that other users can view more dishes and have wide choices of dishes. |
|  | The system shall allow the registered user to change his/her profile photo. | 4 | As a user, I want to edit my profile photo, so that I can keep my profile up to date |
|  | The system shall allow the user to change his/her profile name. | 4 | As a user, I want to be able to change the name of my profile at any time so that the name that appears to others will be changed by default. |
|  | The system shall allow the user to add a bio. | 2 | As a user, I want to be able to add a bio at any time so that I can till other users a little about myself. |
|  | The system shall allow the user to edit his/her bio. | 2 | As a user, I want to be able to edit my bio at any time so that I can update my small description and facts whenever something change about myself. |
|  | The system shall allow the user to sign out. | 10 | As a user, I want to be able to sign out from my account at any time so that I make sure that it’s secured and won’t be accessed by someone else, or to sign in again using a different account. |
|  | The user shall write a price for the added dish. | 9 | As a user, I want the system to display a price with every dish added by the user who added the dish so that I can compare the dishes prices. |
|  | The user shall be able to set a location of shop. | 4 | As a user, I want to be able to set a location for a shop so that other users would know where is the shop located. |
|  | The user shall be able to determine time of opening and closing of shop. | 4 | As a user, I want to be able to set the worktime for a shop so that other users would know when to visit the shop. |
|  | The user shall be able to set a photo for the added dish. | 6 | As a user, I want to be able to upload a photo for a dish so that other users would have a better and a more realistic image about the dish. |
|  | The user shall be able to choose a kind of the added dish. | 5 | As a user, I want to be able to select the dish kind from a list when I add a new dish so that I would give more info about the dish when other users view it. |
|  | The user shall be able to write a kind of the added dish. | 6 | As a user, I want to be able to write the dish kind when it’s not listed so that it will expand the dish kind options. |
|  | The user shall be able to like the dish. | 6 | As a user, I want to be able to like any dish so that I can find it later by viewing the liked dishes. |
|  | The user shall be able to rate the dish. | 10 | As a register of app, I want to like any dish so that become in my liked list. |
|  | The user shall be able to choose occasion type for a dish. | 6 | As a user of app, I want to rate any dish in app so that the system displays the total average of rating with my rate. |
|  | The registered user shall be able to add a picture for a dish. | 3 |  |
|  | The user shall be able to edit price for a dish. | 3 | As register user off app, I want to edit the price displayed on dish page, so that change on database and dish page. |
|  | The user shall be able to edit name for that dish. | 2 | As register user off app, I want to edit the name displayed on dish page, so that change on database and dish page. |
|  | The registered user shall be able to add a tip for that dish. | 6 | As register user of app, I want to add ne dish in the app, so that added on database and dishes list. |
|  | The user shall be able to view dish name, occasion type, price and picture in separate page. | 10 | As a user of app, I want to select type of occasion for any dish in app so that the system displays the most three of user chooses. |
|  | The user shall be able to view dish rating and number of raters. | 10 | As a user of app, I want to view dish rating and number of raters who rate the dish. |
|  | The user shall be able to view any shop page. | 4 | As a user of app, I want to view list of shop in app. |
|  | The price should be one decimal numbers. | 1 | As a user of app, I want to view welcome slide for first time opening the app to that I understand the core idea of the app. |
|  | Total time of failure status should not exceed 20 minutes per year | 2 |  |
|  | The Dish application should not use more than 5% of battery power in two hours' time | 3 |  |
|  | The app must support Arabic and English languages. | 1 |  |
|  | The system shall display welcome slide in the first-time user open the app. | 1 |  |
|  | Create structure of database on fire base. | 10 | As a developer, I want to build structure of database using Json so that the database is united in one project on firebase. |
|  | Downloaded needed tools and programs to start developing with ionic and angular. | 10 | As a developer, I want to download all needed tools and program so that I can start working an discovering tools and developing environments |
|  | Download the icons and style for our system. | 10 | As a developer, I want to select design and style to all app pages and download needed elements. |

# User Stories:

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| --- | --- | --- |
| User story | Future id | Effort needed |
| As a user, I want to see a list of dishes ,so that I Browse all the types shown. |  |  |
| As a user, I want to Sort the dishes list according to my need, so that I find what I want easily. |  |  |
| As a user, I want to filter the displayed list by meeting or by kind, so that I Minimize the dishes options. |  |  |
| As a user, I want to filter the displayed list by meeting or by kind, so that I Minimize the dishes options. |  |  |
| As a user , I want the dishes list ordered by high rating, so that I know what is the best dishes. |  |  |
| As a user, I want to show the restaurants and shops list, so that I see the dishes for that specific shop or restaurant. |  |  |
| As a user , I want to filter the shops list ,so that I minimize the shops options. |  |  |
| As a user, I want to search by shop or restaurant name, so that I save my time. |  |  |
| As a user, I want to search by dish’s name, so that I save my time. |  |  |
| As a user, I want to view my ratings, so that I save my opinion about specific thing for future needs. |  |  |
| As a user, I want to be able to view my comments from my profile page. |  |  |
| As a user, I want to able to ' like ' mark a dish so that my favorites dishes are arranged'. |  |  |
| As a user, I want to determine my current location so that I can find which the shops the nearest to me. |  |  |
| As a user, I want to create account in pick a dish application so that I can use all app's features. |  |  |
| As a user, I want to create account in pick a dish application using my email so that If I had forgotten my password, I may click on "Forgot Password" to receive instructions via my email on how to reset my password. Or access/delete it |  |  |
| As a user, I want to receive successful message, so that’s I can confirm my account via email. |  |  |
| As a registered User  I want to login by user name and password, so that I can use the password used to authenticate an identity. |  |  |
| As a registered User  , I want to able view my profile so that I can see my profile based on my specific info and posts. |  |  |
| As a registered User  , I want to view the comments on a dish post so that I can see a random person opinion about that dish. |  |  |
| As a logged in user  , I want to able to add new dish so that other users can view more dishes and have wide choices of dishes. |  |  |
| As a user, I want to edit my profile photo, so that I can keep my profile up to date |  |  |
| As a user, I want to be able to change the name of my profile at any time so that the name that appears to others will be changed by default. |  |  |
| As a user, I want to be able to add a bio at any time so that I can till other users a little about myself. |  |  |
| As a user, I want to be able to edit my bio at any time so that I can update my small description and facts whenever something change about myself. |  |  |
| As a user, I want to be able to sign out from my account at any time so that I make sure that it’s secured and won’t be accessed by someone else, or to sign in again using a different account. |  |  |
| As a user, I want the system to display a price with every dish added by the user who added the dish so that I can compare the dishes prices. |  |  |
| As a user, I want to be able to set a location for a shop so that other users would know where is the shop located. |  |  |
| As a user, I want to be able to set the worktime for a shop so that other users would know when to visit the shop. |  |  |
| As a user, I want to be able to upload a photo for a dish so that other users would have a better and a more realistic image about the dish. |  |  |
| ~~As a user, I want to be able to sort the dishes by the desired preference so that the dishes will be displayed according to the selecting preference.~~  As a user, I want to be able to select the dish kind from a list when I add a new dish so that I would give more info about the dish when other users view it. |  |  |
| ~~As a user, I want to be able to filter the dishes according to the type of the event or the visit which it’s more suitable for so that the dishes that doesn’t match will be discarded.~~  As a user, I want to be able to write the dish kind when it’s not listed so that it will expand the dish kind options. |  |  |
| As a user, I want to be able to like any dish so that I can find it later by viewing the liked dishes. |  |  |
| As a register of app ,I want to like any dish so that become in my liked list. |  |  |
| As a user of app ,I want to rate any dish in app so that the system displays the total average of rating with my rate. |  |  |
| As register user off app, I want to edit the price displayed on dish page ,so that change on database and dish page . |  |  |
| As register user off app, I want to edit the name displayed on dish page ,so that change on database and dish page . |  |  |
| As register user off app, I want to add ne dish in the app ,so that added on database and dishes list. |  |  |
| As a user of app ,I want to select type of occasion for any dish in app so that the system displays the most three of user chooses. |  |  |
| As a user of app ,I want to view dish rating and number of raters who rate the dish . |  |  |
| As a user of app ,I want to view list of shop in app . |  |  |
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|  |  |  |
| As a user of app ,I want to view welcome slide for first time opening the app to that I understand the core idea of the app . |  |  |
| As a developer, I want to |  |  |
| As a developer, I want to |  |  |
|  |  |  |

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# Platform and Implementation Tools:

The project will be implemented using Ionic 3 which is a framework that emulates native app UI guidelines and uses native SDKs, bringing the UI standards and device features of native apps together with the full power and flexibility of the open web. Ionic uses Cordova or Phonegap to deploy natively, or runs in the browser as a Progressive Web App. The basic Knowledge required in order to use Ionic framework is Java script, html, and css. Also, using Angular 4 which is an open source web development java script framework.

As the application needs a real-time data base we will use an Angular 4/Ionic 3 mobile app and connect it to Firebase with the Ionic CLI tool.

# Appendixes:

Functional requirement:

* The app should display the list of dishes ordered by user choice [rate, price, location].
* The user can filter the displayed dishes by filters kind of meeting.
* The user can filter the displayed dishes by filters kind of dish.
* The home page for app should be the list of dishes ordered by most high rating.
* The list of shops and restaurant should have separate page with ordering and filters.
* The user can search by name of shop.
* The user can search by name of dish.
* The system shall allow the user to sign up to a new account using a nonexistent username and a password.
* The system shall prompt the user to sign up using his/her email.
* The system shall send an email to the user indicating that his/her registration was successful.
* The system shall allow the user to sign in to an existing account using an existing username and password.
* The system shall allow the user to view his/her profile.
* The system shall allow the user to view his/her ratings.
* The system shall allow the user to view his/her comments.
* The system shall allow the user to view his/her liked dishes.
* The system shall allow the user to add a new dish.
* The system shall determine the user’s current location.
* The system shall allow the user to change his/her profile photo.
* The system shall allow the user to change his/her profile name.
* The system shall allow the user to add a bio.
* The system shall allow the user to edit his/her bio.
* The system shall allow the user to sign out.
* The user shall write dish name in English character.
* The user shall write a price for the dish with the dollar.
* The user shall set a location of shop.
* The user shall determine time of opening and closing of shop.
* The user shall set a photo for dish.
* The user shall choose a type of dish [Pasta & risotto, Salad, Bread & doughs, Curry, Vegetable sides, Soup, Antipasti, Roast], or write other type.
* The user shall write a type of dish if type didn't mention in the list of type by select 'other' option.
* The user can add a new dish by pressing the 'add' button.
* The user shall be able to like the dish to save it in his/her dishes list.
* The user shall be able to rate the dish .
* The user shall be able to choose occasion type for the dish.
* The user shall be able to change the picture for the dish.
* The user shall be able to edit price for the dish.
* The user shall be able to edit name for that dish.
* The user shall be able to add a tip with picture for that dish.
* The user shall be able to view dish name ,occasion type, price and picture .
* The user shall be able to view dish rating and number of raters.
* The user shall be able to view dish shop .

Non-functional requirement:

* The app should be smooth.
* The price should be two decimal numbers.
* Total time of failure status should not exceed 20 minutes per year
* The Dish application should not use more than 5% of battery power in two hours' time

Design constrain:

* The app must support Arabic and English languages.
* The app must consider

Use case diagram:

