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**Git URL:**

https://gitlab.com/mai\_ahmed/YourGuide\_SW\_Project

# Application name:

Your guide

**Documentation purpose:**

Make summary for the application to define all parts and functions for it.

**Documentation audience:**

Client.

**Purpose:**

Design a system based on location and collect data about locations to help user find what he want.

**Objectives:**

* make the system to help users know the locations sorted by

1. tasts
2. Brand
3. Closest places
4. provide the ability to know the brands and tasts of the user friends
5. Make communication between users by using messages and notifications
6. Provide check in for all users
7. Provide search for all users and places
8. Make follow for brands and users

**Audience for the application:**

The users for the application.

**Scope:**

1. create database and provide it with places and users
2. provide functions to make search for users and brands
3. this application will provide all possible places for the user
4. minimize the effort for searching for places
5. Manage the communication between friends

**Overview:**

All user will register using email and password and username.

And if user forget his password he will receive a code in message through Gmail to be able to change his password.

There are 2 types of users**: normal user** and **premium user**

Both of them have the same functions except that normal user can only check in on already registered places

So when a normal user does a check in, the system should recommend the nearest place to the current location of the user

But a premium user can check in on a new place and register this place in the places DB with new name.

**Places:**

We will make a database and provide it with places and make rate for places and the number of check in for each place and provide tip for each place.

**Messingsystem:**

We will make a messaging system between users.

**Brands:**

There will be a collections of brands to help user get information about places that he want.

**Tasts:**

By assign a list for a user to write his favorite locations and make suggestions for the user.

User can make edit for this list.

**Notifications:**

The user will get a notification when

1. Get a message
2. Received tips from following brands
3. If there are a comments and likes
4. When user get friend request

**Lists:**

Each user will get a list on his home page contain locations based on

1. tasts
2. brands
3. closest places

**Definitions:**

**Brand:** Collection which contain recommend tips for users.

**Tasts:** Collection of places which user like it.

**Functional requirements:**

1. **sign up :**

In this function the user will be able to create account by completing all information needs (name, e-mail, mobile number – username – password)

1. **sign in :**

In this function the system will get the user name and password and check this information to enable the user to enter his account

1. **show tasts :**

The system will suggest a list of tasts for the user

1. **follow favoritetasts :**

The user will follow his favorite tasts after the system show

And the system will store this for each user

1. **show brands :**

the system will suggest list of brands for the user to follow it if he want

1. **follow brands:**

After the user make follow this function will store this

1. **show friends:**

Thesystem will suggest list of friends for the user

1. **follow user:**

After the user make follow for friend this function will store this

1. **send message :**

the system will send a message for a specified user to make communication

1. **Communicate with users through messages :**

In this function the user will write message text and define for which user this message will besent and then the system will send it

1. **result for check in**

In this function the system will publish for the friend of the user that the user is in this place in the home

1. **user interaction:**
2. make like

By make like the system will store this for each of the user and in turn the user will get a notification

1. make comments

By making comment the system will store this operation for each user and in turn the user will get a notification

1. **send notification:**

The system will send a notification for the user when there if a like or comment or follow request or follow accept response

1. **delete tasts:**

The user can make UNfollow operation and in turn the system will delete this taste for the user

1. **add tasts:**

The user can add taste to his tasts by making follow and in turn the system will store this update for the user

1. **UN follow friends:**

When the user make UNfollow for a friend the system will save this change for the user

1. **communicate with all people through messages**

If the user want to communicate with a person who isn't a friend for him he will be able to write message for him and in turn the system will send it

1. **system response:**

The system will make a list contain all data about what the user want to search

1. **search :**

In this function the user will be able to write what he want to search about and in turn there will be a system response

1. **check in :**

The user will be able to check if his position is found in the system or not and if isn't find if:

1. the user is ordinary

The system will tell him the closest place to him

1. the user is premium

The user will be able to add this places in the system

And if it's found the system will show the result of the check in

1. **forget password**

This will make the system resend confirmation code to reset the password of the user and in turn keep the update

1. **can create brand**

This function will be available for premium users only to create

Brand

1. **Add data to brand**

After the premium user create brand

**Nonfunctional requirements:**

**Usability:**we will provide a simple user interface can be understood by different people

**Performance:** any update in any brand, the user will get it immediately without any late and the application response for each request will be fast as possible

**Security:** only the owner of the account can know the password and no one can access his account and only the premium user can update the database

**Maintainability:** if there is any error the system will tell the user that there is an error and the operation doesn't complete

**Scalability:** System should be able to support up to 1000 simultaneous user

**Use Cases:**

* **Users:**

1. **ordinary user**
2. **premium user**
3. **Bank**

* **Ordinary user:**

1. Sign up
2. Sign in
3. Write tasts
4. Follow brands
5. Follow user
6. Communicate with users through messages
7. Check notifications
8. Make like for his friends posts
9. make comments for his friends
10. Un follow friends or brand
11. Communicate with all people through messages
12. Search
13. Check in
14. Forget password

* **Premium user**

1. Sign up
2. Sign in
3. Write tasts
4. Follow brands
5. Follow user
6. Communicate with users through messages
7. Check notifications
8. Make like for his friends posts
9. make comments for his friends
10. Delete tasts
11. Update tasts
12. Un follow friends or brand
13. Communicate with all people through messages
14. Search
15. Check in
16. Can create brand
17. Forget password
18. Add data to brand

* **Bank:**

1. Check premium or not

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| --- | --- | --- |
|  | | |
| ***Sign UP*** | | |
| **Actors** | Users | |
| **Goals** | Create an account for user | |
| **PostCondition** | Add account for the user | |
| **Steps** | **UserAction** | **System Action** |
| 1. click on sign up 2. complete all information needed to make account | 1. form appeared to make register 2. if the user enter any wrong information the system will inform him and then send confirmation code for the user to verify his account |
| ***Sign In*** | | |
| **Actors** | Users | |
| **Goals** | Open the account to interact with the system | |
| **PostCondition** | The user will be able to make interaction with the system | |
| **Extension of** | Forget Password | |
| **Include of**  **Include** | 1. Write tastes 2. Follow brands 3. Follow user 4. Communicate with users through messages 5. Check notification 6. Make like for his friends posts 7. make comments for his friends 8. Delete tastes 9. Update tastes 10. Unfollow friends 11. Communicate with all people through messages 12. Search 13. Check in 14. Can create brand 15. Forget password 16. Add data to brand   --------------------------------------------   1. Sign up | |
| **Steps** | **User Action** | **System Action** |
| 1. Enter the username and password ( He has three trails to make sign in ) | 1. check the password and username if they are correct he will access his account |
| ***Forget password*** | | |
| **Actors** | Users | |
| **Steps** | **User Action** | **System Action** |
| 1. If the user enter un correct password or username for fourth time while he sign in | 1. he will get a message on mobile contained a code to activate his account by changing his password |

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| ***Follow user*** | | |
| **Actors** | User | |
| **Goal** | to communicate with others | |
| **Post**  **Conditions** | Each of them will get the check in for the another one and each of them will get notifications about each other  And can communicate with each other and make likes and comments | |
| **Include of** | Make like for his friend posts  Make comment for his friend posts  Make unfollow for friend | |
| **Steps** | **User Action** | **System Action** |
| 1. Click follow friend | 1. system add that two person become friends and add each of them on the list of the another person |
| ***Communicate with friends and other people through messages*** | | |
| **Actors** | User |  |
| **Goals** | communicate with your friends |  |
| **Steps** | **User Action** | **System Action** |
| 1. Write message and click send | 1. the system will send the message to the other person and the person will get notification about the message |
| ***check notifications*** | | |
| **Actors** | User | |
| **Goals** | Keep in update with the system | |
| **Steps** | **User Action** | **System Action** |
|  | 1. the system will send a notification for the user when he get like or comment or follow request or message |
| ***Make like for his friends posts*** | | |
| **Actors** | User | |
| **Steps** | **User Action** | **System Action** |
| 1. Click Like | 1-the system will send to the user a notification that there is a person make like |
| ***Make comment for his friend’s posts*** | | |
| **Actors** | User | |
| **Steps** | **User Action** | **System Action** |
| 1. Write Comment | 1. the system will send to the user a notification that there is a person make comment |
| ***Delete tasts*** | | |
| **Actors** | premium user | |
| **Include** | write tasts | |
| **Steps** | **User Action** | **System action** |
| 1. click delete for a specific tast | 1. - the system will delete the taste from the user list |
| ***Add tasts*** | | |
| **Actors** | premium user | |
| **Steps** | **User Action** | **System Action** |
| 1. click add and add for the list | 1. the system will add the taste to the user list |
| ***Un follow friends or brand*** | | |
| **Actors** | User | |
| **Steps** | **User action** | **System action** |
| 1. Click un follow to delete this friend | 1. the system will remove any related information between each other |
| ***Search*** | | |
| **Actors** | User | |
| **Steps** | **User action** | **System action** |
| 1. write the name of the thing that you want to search about it | 1. system will return a list contain all things which related to this name and if it's not found 2. The system will replay that ther is no results |
| ***Check in*** | | |
| **Actors** | User | |
| **Goals** | to tell the people about his position | |
| **Steps** | **User action** | **System action** |
| 1. write the name of the location | 1. the system will check for this position if it's exist the system will make a post and sput the post on the user home and if it's not exist 2. The system will choose the closest place and make post for the ordinary user 3. If the user is permuim he will be able to add the place to the system and in tuen the system will make a post |
| ***Check premium or not*** | | |
| **Actors** | Bank | |
| **Include** | 1. create brand 2. add data to brand 3. delete taste 4. add taste | |
| **Steps** | **User action** | **System action** |
|  | 1. system will get confirmation from bank that the user pay for the account Or not |
| ***create brand or place*** | | |
| **Actors** | premium user | |
| **Pre-conditions** | the user should be premium | |
| **Steps** | **User action** | **System action** |
| 1. - the premium user create new brand or place | 1. - system will check if the user is premium and in turn if he is premium the system will add this places |
| ***add data to brand*** | | |
| **Actors** | premium user | |
| **Include** | create brand | |
| **Steps** | **User Action** | **System Action** |
| 1. user complete all information which needed to create brand | 1. the system will store this information for this brand |

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| ***Write tasts*** | | | | |
| **Actors** | | Users | | |
| **Goal** | | Identify his favorite places | | |
| **Steps** | | **User Action** | | **System Action** |
| 2- Follow his favorite places from the list | | 1. Suggest a list for the user to choose from it 2. system record this places in the database |
| ***Follow brands*** | | | | |
| **Actors** | User | | | |
| **Post conditions** | Get all information about this brand in the user home and appear to my friends | | | |
| **Goals** | Get all information about this brand in the user home and appear to my friends | | | |
| **Steps** | **User Action** | | **System Action** | |
| 1. User click follow for the brand | | 1. system make list to add any follow for the user on brand And increase number of followers for this brand | |