Cairo University  
Faculty of Computers and Information



**CS251**

**Software Engineering I**

**2alak feen** فِيَنَّ قَالَكَ

Software Requirements Specifications

**Phobia**

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# Team

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# Document Purpose and Audience

This document is Software Requirements Specifications for 2oly feen system.

Customer must read this document.

# Introduction

## Software Purpose

This App is social media application something like face book but depend on locations instead of write posts about news ,feeling …etc. So I can post my location (check in) for example.

It is not full free app some feature need money like make a page (Brand).

## Software Scope

User can add friends by only this app and see where they are I can also keep in touch with them and send messages and make grouping conversation so every user will have an account in this app.

A notifications will send to user when an unread message detected, friend request or received tips from following brand.

Check in will be based on GPS so user must have a smart phone.

This app is supported only in android devices.

## Definitions, acronyms, and abbreviations

**Check in**: Check in the process whereby people announce their arrival some places and the system will detect where he is by the GPS and tell your friends where you are.

**Normal user**: user have limited feature like check in, comment on a check in, like and send message. He only cannot make a Brand.

**Premium user**: have all feature provided by the application

**Tips**: Tip is a text recommendation from users to this place. Tip may be about the service in this place something differ this place.

**Brand:** It is something like a page on Facebook users can follow this brand see a place in this brand only available for premium users and tips are sent to follower as a notification when check in a new place happen.

**Tastes:** it is something like tags in FACEBOOK and user can add, remove, and change tastes and also places

# Requirements

## Functional Requirements

**Downloading and installation:**

User can download this app from google play store or windows store it is supported for android or windows phone devices.

**Starting application:**

when user start the application the logo of the application appear and loading the log in page and see the state of connection to the network if no connection found the message appear to user to try again later or see un updated data .

**Log in:**

After the application start a user enter the user name and password he can make remember me to not enter it every time he start the application.

**Sign up:**

If user a new user he can make account for free. He will be asked about user name that unique one, password, confirm password, phone number, and birthday.

**Home page:**

User can access it when he start the app or via navigation par .it contain a list of places and tips and some buttons like search, comment and like.

**Search:**

User can search for places or another user by adding the name of the place or user.

Search field is in the navigation par.

**Add friend:**

User can add Friends to his list .User will go to Friend’s profile and click on add friend button.

**Check in:**

if I want to tell my friends where I am I can do something named check in its work by GPS for normal user Check in search for nearest popular place and chose it as the location of the user but for Premium user can add his place.

**Add Tips:**

User can add some recommendation to another User’s places he check in.

User will go to any check in he want and click on add tips and write what he want and when he finish he click on done button

**Add, Change and remove Tastes:**

User can add, change and remove Tastes to his profile or the places in my Brand. User only need to go to his profile or Brand click on Tastes section and click on add to add a Tastes or click on an existing one to change it or remove it.

**Message system:**

User can send message to my friends or make group conversation.

To send user will go to his friend profile and click on send message.

To make group user go to his profile and choose make group

Then app will ask him to select friends he want to add to this group chat.

**Make a Brand:**

From home page user select create Brand.

It is available for premium users to make a brand it’s a page of places and its tips any user can follow it and do like and comment and receive a new tips when a new check in at certain location .Brand has a link to FACEBOOK and twitter.

Finally Owner can text user with new available places.

Finally Owner can text user with new available places.

**Notification:**

Will be sent to user when a new message received, friend request, new tips, new places in Brand and an update need for the application.

**Rating places:**

Places are rating from one to ten (1-10).

The application record the number of check in or saving process happen to this place by users and take it for evaluation.

**Sort lists:**

Places should appear to user sorted and user can choose what kind of sorting he want (nearest, rating, best nearest...)

**Allowing multiple payment method:**

When user create brand the application asked him to choose payment method.

The user will select the payment method he want (master card, PayPal, visa)

**Profile page:**

User can go to his profile from navigation par and edit anything he want like his picture ,his phone number and his Tastes view his friends and see history of places and check in.

## Non Functional Requirements

**Usability:**

Easy use and simple enough tool bar and icons.

The application have a tutorial for new users.

**Reliability:**

The application will available for 99% and if any update found user will use old version until new one installed.

No bugs introduced yet, No crashes and only security update will stop the application.

**Implementation:**

The application will written in java

**Performance:**

Response time should not exceed 1 minute in normal Connection but if the connection is too slow message appear to user and the response time will be 1-3 minute and efficiently using resource (memory, battery and CPU) .

**Interface:**

Very simple easy and user can customize his themes choosing colors, background, font size and type of font.

**Security issues:**

The system shall not leave any cookies on the customer’s computer containing any of the user’s confidential information

And use https.

**Maintainability:**   
any bugs are founded or any changes must be done can easy to maintain and can be add to the application by update or install new version.

**Portability:**

**The Application will run on android device.**

# System Models

# Use Case Model

## Use Case Tables

|  |  |  |
| --- | --- | --- |
| Use Case ID: | F1 | |
| Use Case Name: | Downloading and installation | |
| Actors: | User | |
| Pre-conditions: | There is available size in the device memory for the app | |
| Post-conditions: | All app files is downloaded on the device | |
| Flow of events: | **User Action** | **System Action** |
| 1- User click on install button. |  |
|  | 2- System start download the app. |
| 3- Wait until download finished. |  |
|  | 4- Check that all files are downloaded. |
| 5- User can open the app. |  |
| Exceptions: | **User Action** | **System Action** |
| 1- User click on install button. |  |
|  | 2- There is no available size on device memory.  3-download stop cause of an error occurred. |
| Includes: |  | |
| Notes and Issues: |  | |

|  |  |  |
| --- | --- | --- |
| Use Case ID: | F2 | |
| Use Case Name: | Starting application | |
| Actors: | User | |
| Pre-conditions: | User must install the app. | |
| Post-conditions: | App run if there is a connection to the network. | |
| Flow of events: | **User Action** | **System Action** |
| 1. User click on app icon. |  |
|  | 1. App start to open loading the log in page. |
| Exceptions: | **User Action** | **System Action** |
| 1. User click on app icon. |  |
|  | 1. Check connection to network &message appear to user to try again later if there is no connection to internet or to see the updated data. |
| Includes: |  | |
| Notes and Issues: |  | |

|  |  |  |
| --- | --- | --- |
| Use Case ID: | F3 | |
| Use Case Name: | Log in | |
| Actors: | User | |
| Pre-conditions: | There is Internet connection. | |
| Post-conditions: | User will go the home page by enter Correct password and username. | |
| Flow of events: | **User Action** | **System Action** |
| 1. User start to fill his username and password. |  |
| 1. User can choose Remember me option to not enter it every time he start the application. |  |
|  | 1. System check the username and password. |
| Exceptions: | **User Action** | **System Action** |
| 1. User start to enter his username and password. |  |
|  | 1. If the username or password is invalid message will appear to user to re-enter his user name and password |
| Includes: | Home page, Search, Add friend, Check in, Add Tips, Add, Change and remove Tastes, Message system, Make a Brand, Rating places, Sort lists, Allowing multiple payment method, Profile page. | |
| Notes and Issues: |  | |

|  |  |  |
| --- | --- | --- |
| Use Case ID: | F4 | |
| Use Case Name: | Sign up | |
| Actors: | User | |
| Pre-conditions: | Must check the Internet connection | |
| Post-conditions: | Username must be Unique and the password must be confirmed | |
| Flow of events: | **User Action** | **System Action** |
| 1. User will fill his data name, birthday date, password, phone number. |  |
|  | 1. System will check the username is it unique or not and check the password to be confirmed. |
| 1. User click on sign up button to start using the app. |  |
| Exceptions: | **User Action** | **System Action** |
| 1. User will fill his data name, birthday date, password, phone number. |  |
|  | 1. If the username is not unique or the password is not confirmed message will appear to user to choose another username or another password. |
| Includes: |  | |
| Notes and Issues: |  | |

|  |  |  |
| --- | --- | --- |
| Use Case ID: | F5 | |
| Use Case Name: | Home page | |
| Actors: | User | |
| Pre-conditions: | Must check the internet connection to refresh the home page or loading it. | |
| Post-conditions: | The list of places must be sorted by users’ choice. | |
| Flow of events: | **User Action** | **System Action** |
| 1. User can access it when he start the app or via navigation par |  |
|  | 1. Home page starting to load it contain a list of places and tips and some buttons like search, comment and like. |
| Exceptions: | **User Action** | **System Action** |
| 1. User can access it when he start the app or via navigation par |  |
|  | 1. If there is no connection to network the Home Page will not load and a message will appeared to user that is no connection to internet. |
| Includes: |  | |
| Notes and Issues: |  | |

|  |  |  |
| --- | --- | --- |
| Use Case ID: | F6 | |
| Use Case Name: | Search | |
| Actors: | User | |
| Pre-conditions: | There must be an internet connection and User must login before search. | |
| Post-conditions: | Result must be similar to what the user had entered. | |
| Flow of events: | **User Action** | **System Action** |
| 1. User enter what he want to search about. |  |
|  | 1. System will search about what user had entered in the database & show the results to user. |
| Exceptions: | **User Action** | **System Action** |
| 1. User enter what he want to search about. |  |
|  | 1. If system doesn’t found what the user searched for message will appear to user that there is no result. |
| Includes: |  | |
| Notes and Issues: |  | |

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| --- | --- | --- |
| Use Case ID: | F7 | |
| Use Case Name: | Add friend | |
| Actors: | User | |
| Pre-conditions: | There must be an internet connection and User must login before search | |
| Post-conditions: | A notification must be sent to another user | |
| Flow of events: | **User Action** | **System Action** |
| 1. User will click on add friend button on the profile page of another user. |  |
|  | 1. System will send notification to user that someone added him. |
|  |  |
| Exceptions: | **User Action** | **System Action** |
| 1. User will click on add friend button on the profile page of another user. |  |
|  | 1. If there is no internet connection message appear to user that he can try again later because there is no internet connection. |
| Includes: | Notification | |
| Notes and Issues: |  | |
| Use Case ID: | F8 | |
| Use Case Name: | Check in | |
| Actors: | User | |
| Pre-conditions: | GPS must be turned on and there must be an internet connection | |
| Post-conditions: | Check in will added to the home page and profile page. | |
| Flow of events: | **User Action** | **System Action** |
| 1. User will enter check in button and search for his place. |  |
|  | 1. System will post his check in on home page and profile page. |
|  |  |
| Exceptions: | **User Action** | **System Action** |
| 1. User will enter check in button and search for his place. |  |
|  | 1. If the GPS is turned off message will appear to user to turn it on. 2. If there is no internet connection message will appear to user to try again later because there is no internet connection |
| Includes: | Rating places | |
| Notes and Issues: |  | |

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| --- | --- | --- |
| Use Case ID: | F9 | |
| Use Case Name: | Add Tips | |
| Actors: | User | |
| Pre-conditions: | There must be an internet connection. | |
| Post-conditions: | Tips will be added to the check in post. | |
| Flow of events: | **User Action** | **System Action** |
| 1. User will go any check in he want and click on add tips and write what he want and click button done to finish. |  |
|  | 1. System will add this tips to the check in. |
|  |  |
| Exceptions: | **User Action** | **System Action** |
| 1. User will go any check in he want and click on add tips and write what he want and click button done to finish. |  |
|  | 1. If there is no internet connection message will appear to user that there is no internet connection try again later. |
| Includes: | Notification | |
| Notes and Issues: |  | |

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| --- | --- | --- |
| Use Case ID: | F10 | |
| Use Case Name: | Add, Change and remove Tastes | |
| Actors: | User | |
| Pre-conditions: | There must be an internet connection. | |
| Post-conditions: | Tastes will be added, change or remove from the check in. | |
| Flow of events: | **User Action** | **System Action** |
| 1. User will click on tastes selection to choose what he want to do add, change or remove tastes. |  |
|  | 1. System will add a taste if the user want to add one and will change it if the user select change and will remove it if user select remove taste. |
| Exceptions: | **User Action** | **System Action** |
| 1. User will click on tastes selection to choose what he want to do add, change or remove tastes. |  |
|  | 1. If there is no internet connection message will appear to user that there is no internet connection try again later |
| Includes: | Notification | |
| Notes and Issues: |  | |

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| --- | --- | --- |
| Use Case ID: | F11 | |
| Use Case Name: | Message system | |
| Actors: | User | |
| Pre-conditions: | There must be an internet connection. | |
| Post-conditions: | Receiver will receive a notification that someone message him. | |
| Flow of events: | **User Action** | **System Action** |
| 1. Sender will open his friend profile page and click on send message button. |  |
|  | 1. A message box will appear so sender can write his message and click send. 2. Message will be sent to receiver via internet. |
| 1. Receiver will receive a notification - but there must be an internet connection - that someone message him & he can open the message and reply. |  |
| Exceptions: | **User Action** | **System Action** |
| 1. User click send to send his message. |  |
|  | 1. If there’s no internet connection message will not sent and system will tell the user to try again later |
| Includes: | Notification | |
| Notes and Issues: |  | |

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| --- | --- | --- |
| Use Case ID: | F12 | |
| Use Case Name: | Make a Brand | |
| Actors: | premium user | |
| Pre-conditions: | Check the user is premium user or normal user and check the internet connection. | |
| Post-conditions: | A brand will be created for the premium user. | |
| Flow of events: | **User Action** | **System Action** |
| 1. Premium user will click on make a brand button. |  |
|  | 1. System will check if the user is premium user or normal user. |
| 1. A Page will appear to premium user contain the payment method that he chose. |  |
|  | 1. After finishing the payment method a new brand will be created for the premium user. |
| Exceptions: | **User Action** | **System Action** |
| 1. User click make a brand button. |  |
|  | 1. If the user is not a premium user message -will appear to him that he can’t make a brand. |
| Includes: | Allowing multiple payment method. | |
| Notes and Issues: |  | |

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| --- | --- | --- |
| Use Case ID: | F13 | |
| Use Case Name: | Notification | |
| Actors: | System | |
| Pre-conditions: | There must be a something happened that the app will tell the user about.  There must be an internet connection. | |
| Post-conditions: | User will receive the notification and he can open it. | |
| Flow of events: | **User Action** | **System Action** |
|  | 1. System will send an alert to user. |
| 1. User will receive the notification (message, friend request, new tips, new places or new update available) he can open it. |  |
|  |  |
| Exceptions: | **User Action** | **System Action** |
|  |  |
|  | 1. If there is no internet connection the notification will delayed until the user connect to internet. |
| Includes: |  | |
| Notes and Issues: |  | |

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| --- | --- | --- |
| Use Case ID: | F14 | |
| Use Case Name: | Rating places | |
| Actors: | System | |
| Pre-conditions: | Check the number of check in to the place. | |
| Post-conditions: | Place will be rated | |
| Flow of events: | **User Action** | **System Action** |
| 1. User will check in. |  |
|  | 1. System will check the number of check in or saving process happen to this place by users and take it for evaluation. |
| 1. User can see the rate of each place. |  |
| Exceptions: | **User Action** | **System Action** |
| 1. User can check in and remove it. |  |
|  | 1. System must check the number of check in every specific interval of time and rate places. |
| Includes: |  | |
| Notes and Issues: |  | |

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| --- | --- | --- |
| Use Case ID: | F15 | |
| Use Case Name: | Sort lists | |
| Actors: | System | |
| Pre-conditions: | There must be an internet connection to load new things and sort them | |
| Post-conditions: | Lists must be sorted | |
| Flow of events: | **User Action** | **System Action** |
| 1. User will open the home page. |  |
|  | 1. System will load the home page and sort it by the default method |
| 1. User can choose another method to sort the lists |  |
|  | 1. System will sort the lists by the method that the user chose. |
| Exceptions: | **User Action** | **System Action** |
| 1. User will choose the method of sorting. |  |
|  | 1. If there’s no internet connection message will appear to user that app can’t load and sort the lists. |
| Includes: |  | |
| Notes and Issues: |  | |

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| --- | --- | --- |
| Use Case ID: | F16 | |
| Use Case Name: | Allowing multiple payment method | |
| Actors: | User | |
| Pre-conditions: | User must be a premium user there must be an internet connection. | |
| Post-conditions: | The payment will be correctly done. | |
| Flow of events: | **User Action** | **System Action** |
| 1. User will choose the payment method he want and enter the number of his master card or visa. |  |
|  | 1. System will check the (master card, PayPal, visa) number that the premium user had entered. 2. Money will be deducted from master card, PayPal, or visa. |
| Exceptions: | **User Action** | **System Action** |
| 1. User will enter the number of his master card or visa. |  |
|  | 1. If the number is invalid message will appear to user that the number is wrong. |
| Includes: |  | |
| Notes and Issues: |  | |

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| --- | --- | --- |
| Use Case ID: | F17 | |
| Use Case Name: | Profile page | |
| Actors: | User | |
| Pre-conditions: | There must be an internet connection. | |
| Post-conditions: | Profile page will be appeared to user. | |
| Flow of events: | **User Action** | **System Action** |
| 1. User can go to his profile page from navigation par. |  |
|  | 1. System will load the profile page and show it to user. |
| 1. User can edit anything he want on his profile picture. |  |
| Exceptions: | **User Action** | **System Action** |
| 1. User can go to his profile page from navigation par |  |
|  | 1. System must check the internet connection state of user if there’s no internet connection profile page will not open. |
| Includes: |  | |
| Notes and Issues: |  | |

# Ownership Report

|  |  |
| --- | --- |
| **Item** | **Owners** |
| Functional Requirements, Use case model | *Ahmed Salama Hussien* |
| Introduction, Nonfunctional Requirements | Eslam Mohamed Mohamed |
| Use case Table | *Ahmed Nasser Ramadan* |