Cairo University  
Faculty of Computers and Information



**CS251**

**Software Engineering I**

**Project Name**

**”** Yellow page social **“**

**“YPS”**

**Team Names**

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# Introduction

## Software Purpose

The purpose of the project YPS is to develop an Application (locations based social network) that you can search about places and check in it. Also share your Impression about such place with your friends. Also you can make events and celebrations in it by using GPS, mobile and emails. The application will be funny, with easy GUI.

## Software Scope

This Product allow the user to communicate with his friends (with chatting and calls), post the places he had visited and recommend this places to his friends. There are 2 types of users normal user (check only the place which he registered) and premium user (check in new place and brand component for it)

The system should be able to recognize user's current location using GPS. The system also contains a relational database containing a list of all recommended places. This product is intended to runs on Windows, Mac OS, and Linux and android smart phones.

## Definitions, Acronyms and Abbreviations

**Account:** each user has an account with it he can apply the application features.

**User:** person who has an account, there are 2 types of users, normal user and premium user.

**Normal user:** check in only the places which he registered in it.

**Premium user:** has the same functions in normal user but also he can check in new places and create brands.

**Places:** most popular places in Egypt this place list contain information about it, there is a Tip it is a suggest place by most likes by users.

**Massaging system:** simple massage between users and apply group conversation.

**Brands:** only for premium user who is business men allow companies to create pages.

**Tastes:** it is a rate for each place show its particular item and user make it recognized tastes and able to change it any time he need.

**Notifications:** get a notifications for new events.

**Lists:** places recommended to the user

**GPS**: System using to determine the location

**Categories:** every user has his own searched categories.

**Events:** a shared case with your friends.

# Requirements

## Functional Requirements

**Sign up:** create new account.

**Login:** using an existing account.

**Logout:** exit from the application.

**Register in place**: visiting place with the use of GPS.

**Get list:** list for popular places in Egypt.

**Tip List:** list of suggests places by most likes of user.

**Chat:** conversation in system between users.

**Notifications:** anything done in system or by friend it returns to user by notification.

**Tastes:** list of particular item in place, user add it in his profile and follow it.

**Homepage:** When the application runs, user gets a homepage that contain a list of places that recommended from the other users.

**Add friend:** Also any user can add another user as a friend, and if any 2 users are friends then each of them 'should be able to see the check-in of each other in the homepage places list

**Like, comment & follow:** The user can add comments about a restaurant and he can like the post that belongs to his friend.

**Friend request:** The user can receive a friend request and approve it

**Personal profile:** add personal information, profile picture and so on.

**Place profile:** The profile of the place that contain the information of this place such as Address, phone number, pictures of places, price of items and offers.

## Non Functional Requirements

**Performance:** flexible system and having exception handling.

**Scalability:** multiple user and no specified memory it is free.

**Capacity:** handling of multiple user.

**Availability:** accessing of the application every time.

**Reliability:** having duplicates of backup.

**Recoverability:** recovering data.

**Maintainability:** upgrading System or having new version.

**Serviceability:** multi user services and places.

**Security:** each client has account it should be Synchronous and no fuller in access also security password for it by complexity function to difficult integrity on it.

**Regulatory :** system should by regulate in interface as each function continue for another function not complex to return or go to display of interface .

**Data Integrity:** data should be security of user no one change or remove it.

**Usability:** system treat with many user's from many levels of education it should be easy to treat with it.

## External Requirements

**Hardware Interface:** The System must run over the internet require to connect internet will be hardware interface for the system as for e.g. Modem, WAN – LAN, Ethernet Cross Cable.

**Software Interface :** The system is on server so it requires the JAVA language The system require Data Base also for the store the analyst user need web browser for interact with the system.

**Design Constrain:** The system shall be built using a standard web page development tool that conforms to GUI standards like HTML.