Cairo University
Faculty of Computers and Information

CS251

Software

Engineering I

Locaces

Software Requirements Specifications

Team SOY

CS251: Phase 1 – Team SOY
Project: Locaces

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Team

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Document Purpose and Audience

Purpose
This SRS is written to explain the details of the application.

Audience
The client and the project team.

Introduction

Software Purpose
The purpose of the project Locaces is to build a social network based on maps and locations. This social network will provide the opportunity to let your friends know where you are, to see if there is a friend nearby and to see some information about some place on the map. This app will be user friendly and totally free. It will be available for Android OS. It should help getting the world a smaller and better place.

Software Scope
The app will support creating users that can interact with each other and leave comments on some places. It will contain initially some places and new places can be added. A messaging system will be provided. Companies will be able to add some information about themselves and be followed by users to send them tips and updates. Each user will choose some tastes such as: food items, clothes styles, and so. And the places' owners will state the tastes that their places provide. Notifications will be sent to users if there something important to them happened. There will be a homepage which contains places that may be important for the user. Users can also search for places with specific properties.

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Software Requirements Specifications

Definitions, acronyms, and abbreviations

- **Tastes: Kinds of food, clothes, or any products or services.**
- **Check-in: The process whereby people announce their arrival at a place on a social network.**

Requirements

Functional Requirements

Locaces gives users a lot of functionality such as check-in, liking and commenting on a check-in, adding friends, rating places, and much more. 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 at already registered places (check-in at popular restaurant for example). 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 at a new place and register this place in the system with a name they choose. And only premium users are able to use the "brands" feature. And here we list the functional requirements of the system:

- **Registering in the system**
  A user will register with their user name, email, password and any additional attributes.

- **Signing in to the system**
  A user will sign in using their user name and password.

- **Recovering a forgotten password**
  A user will be able to recover their forgotten password using different mechanisms.

- **Checking in**
  A user can check-in, and the system will be able to recognize user's current location.

- **Liking a check-in**
  A user can like a friend's check-in, and the friend gets a notification about it.

- **Commenting on a check-in**

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A user can comment on a friend's check-in, and the friend gets a notification about it.

- **Adding friends**
  Any user can add another user as a friend, and if any 2 users are friends, each of them will be able to see the check-in of each other in the homepage places list.

- **Rating places**
  A user can rate a place on a scale of 1 to 10, which helps when recommending places to other people, and for them to know how good or bad this place is.

- **Saving places**
  A user can save the places they like in a places list to be able to get information about these places at any time.

- **Writing tips**
  A user can write tips for a place, like their service or anything else.

- **Liking tips**
  A user can like tips on a place, and tips for a place will be sorted in descending order according to number of likes of each tip.

- **Getting directions**
  A user can get directions from their location to the desired place.

- **Messaging**
  A user can message another user, or create a group conversation that includes more than one user.

- **Brands**
  Brands allow companies to create pages of tips and allow users to "follow" the company and receive special expert tips from them when they check-in at certain locations. Each brand has a list of tips for some places, along with their contact information.

- **Tastes**
  Each place in the system has a defined list of "tastes" in particular food items, styles of cuisine or environmental aspects, which places' owners may add to the

place's profile to let the users know what types of services the place is present.
Also users could add tastes to their profiles for the same purpose also.
New users are presented with a list of words and phrases describing recognized
tastes and they may select the ones that appeal to them. Users can change
their tastes at any time, and can add and remove items from their profile.

- **Notifications**
  Each user in the system will receive a notification when some activity related to
  their account happens. For example, users will receive notifications for unread
  inbox messages, friend requests and received tips from brands you follow.

- **Home page**
  When a user opens the application, a list of places will appear to them. This list
  will be sorted according to one of many strategies. For example, the list might
  be sorted according to nearby places, places suggested by friends (places
  checked-in by friends the most), the best nearby places (based on place
  evaluation), user's tastes, ... etc.

- **Searching for places**
  A user will be able to search for places, and the result is a list of sorted places
  that will appear to them.

Non Functional Requirements

	Details
Performance	Response times: The application must load within 3 seconds. Processing times: All queries must return a response in less than 2 seconds.
Aesthetics	If a survey is conducted, at least 90% should be pleased with the GUI.
Reliability	The system will be available 99.9999% of the time.
Security	A strong password must be used.
Price	Free and will always be free.
Privacy	The application must share only what the user agrees to share.