

Software Engineering

Event Organizer

Software Requirements

Specifications

Code black

Moamen Khaled Mohamed

March,2020

Software Requirements Specifications

Contents

Team.....	3
Document Purpose and Audience.....	3
Introduction.....	4
Software Purpose	4
Software Scope	4
Definitions, acronyms, and abbreviations	5
Requirements	6
Functional Requirements.....	6
Non Functional Requirements	8
System Models	10
Use Case Model	10
Use Case Tables	11
Ownership Report.....	38

Software Requirements Specifications

Team

ID	Name	Email	Mobile
20181570851	Moamen Khaled Mohamed	Mohmanhessien2.2@gmail.com	01552089127
20181495251	Amr Ibrahim Mohamed	Amr2013hero@gmail.com	01098231979
20181495704	Haidy Yasser Mohamed	Haidyyasser200@gmail.com	01221312706
20181571372	Nourelhoda Essam Lofty	Nouraessam77@gmail.com	01273719132
20181497388	Nour Hassan Abdulatif Mohamed	Nourmadi17@gmail.com	01111316690

Document Purpose and Audience

This SRS describes the software functional and nonfunctional requirements for Event Organizer.

The purpose of this document is to give a detailed description of the software requirements for the “Event Organizer” software. It will

Software Requirements Specifications

illustrate the purpose and complete declaration for the development of system.

It will also show the flow of events of the fundamental requirements stated, scenarios of expected exceptions and use-case diagram illustrating actors, operations,...

This document is primarily intended to be proposed to a product manger for its approval and a reference for developing the first version of the system for the development team.

Introduction

Software Purpose

The purpose of this software is to build an application where users can create, manage and attend events in an easy manner.

Software Scope

The “Event Organizer” is a Cross platform mobile application which helps users to find events matching their interests easily, where users can search for coming events in a field they are interested in and discover new events, aside from being an easy tool to reach for events, users can easily register in any event they want, buy tickets of that

Software Requirements Specifications

event and join different events, not only that, they will get updates on events they chose to join or attend.

Users will also have the privilege of creating events themselves and hence they will be able to manage their created events ,update these events and many more. The application should be free to download from a mobile phone application store.

Furthermore, the software needs Internet connection to fetch and display results using API .All system information is maintained in a database. The application also has the capability of representing both summary and detailed information about the events.

Definitions, acronyms, and abbreviations

Term	Definition
User	<ul style="list-style-type: none">Someone who interacts with the mobile phone application
Event Creator	<ul style="list-style-type: none">An event creator is a user who creates an event and accordingly he has the authority to delete and update events.
Event attendee	<ul style="list-style-type: none">An event attendee is a user who register, attend join, leave or buy a ticket of an event.
Attending an event	<ul style="list-style-type: none">Event attendee can attend an event. Attending an event is for free events.

Software Requirements Specifications

Joining an event	<ul style="list-style-type: none">• Event attendee can join an event. Joining an event means that the user wants to join an event and get frequent updates, but doesn't necessarily mean he is going to attend.
Registering in an event	<ul style="list-style-type: none">• Event attendee can register in an event. Registering is for paid events, so user should buy a ticket after registering.
API	<ul style="list-style-type: none">• an API (application programming interface) simplifies programming by abstracting the underlying implementation and only exposing objects or actions the developer needs.
Cross-platform	<ul style="list-style-type: none">• Application supports both platforms.
Application Store	<ul style="list-style-type: none">• An installed application on mobile phone which helps user to find new compatible applications with mobile phone platform and download them from Internet

Requirements

Functional Requirements

1. **Log in to profile**, where system allows user to access his profile.
2. **Sign up**; user will provide data required to register in our application.
3. **Create an event**; system provide to user an option to create an event and manage that event.

Software Requirements Specifications

4. **Delete an event**, after an event has been created, user will be able to delete it.
5. **Attend an event**; if user wishes to attend a free event he would just choose “attend an event” option to attend that event.
6. **Buy a ticket**; for paid events user can buy a ticket using any online payment method.
7. **Receive a confirmation**, having bought a ticket, user will receive confirmation.
8. **Register for an event**; user must register in an event before buying a ticket by providing all required data.
9. **Join an event**; if user wants to join a particular event and get updates on that event, then he will choose “join an event” option.
10. **Leave an event**, in contrast with “join an event”, user will choose to leave an event if he doesn’t want to go to that event and doesn’t want to get updates on that event.
11. **Edit an event**; an event creator will be able to update and edit event’s information.
12. **Search for upcoming events**; user will be able to search for events matching his interests.
13. **View recommended or recently added events**; system will add events to user in this section when new events are created or according to user’s interests

Software Requirements Specifications

14. **Get notifications on events**, System will notify event creators with updates ,i.e, someone bought a ticket of that event, also users will get notifications on events they joined, attended or bought its ticket.

15. **Follow other users**, users have an option to follow other users and get their updates.

16. **Edit profile settings and preferences**, users will have an option to edit their profile settings and preferences.

17. **Discover events**, users will be able to find new events in “discover events” section.

Non Functional Requirements

Requirement	Details
Cross-platform application	<ul style="list-style-type: none">The application is supported on both platforms: Android and IOS.
Security	<ul style="list-style-type: none">The system should be secure and encrypt financial data and credit card information.
Use-ability	<ul style="list-style-type: none">User should be able to understand the flow of App easily ,i.e users should able to use App without any guideline or help from experts/manuals. If user experience needs to be explained then its not good UX.
Reliability	<ul style="list-style-type: none">The application should be reliable to perform the business , i.e when user perform some important

Software Requirements Specifications

	action it should be acknowledged with confirmation.
Performance	<ul style="list-style-type: none">• High system performance determined by fast response time for example when Application is made to start up it shouldn't take more than 3 seconds to load initial screen.
Scalability	<ul style="list-style-type: none">• Application should be able to adopt itself to increased usage or able to handle data as time progress.
Screen Adaption	<ul style="list-style-type: none">• Application should be able to render layout to different screen sizes . Along with automatic adjustment of Font size and image rendering.
Responsiveness	<ul style="list-style-type: none">• Application should be responsive to the user Input or to any external interrupt which is of highest priority and return back to same state.
Fault detection and removal	<ul style="list-style-type: none">• Application provides catching of exceptions so unintended result do not occur such as system crashes or data validation failures.
Availability	<ul style="list-style-type: none">• User is able to install from store(App Store or play store) to download application. Also user should be able to rate the app and contact necessary person via app.
Compatibility	<ul style="list-style-type: none">• System should support multiple version of OS.
Portability	<ul style="list-style-type: none">• Moving from one OS to other OS (from different platforms) doesn't cause any problem.

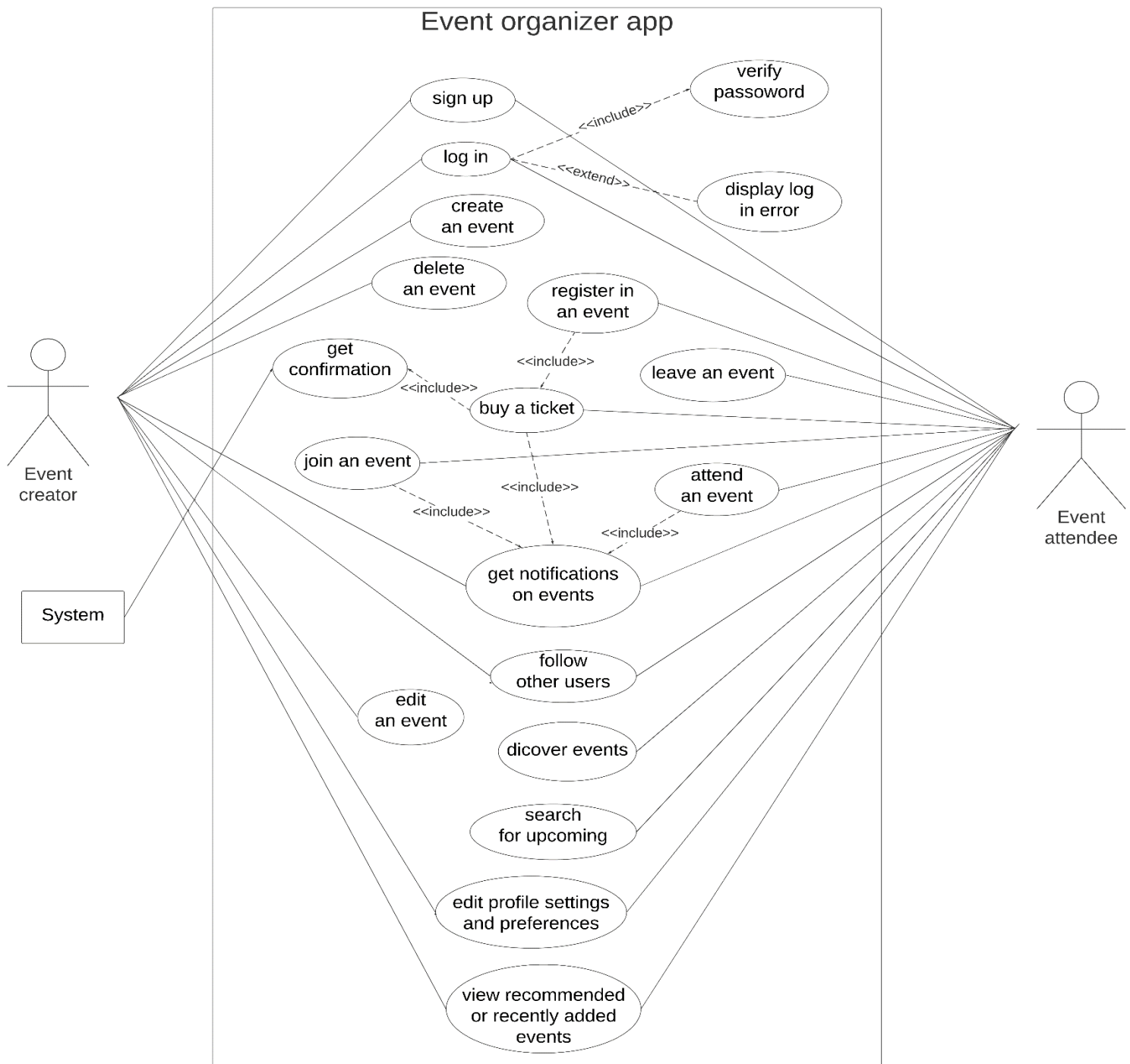
System Models

Phase 1 – Code black

Project: Event Organizer

Software Requirements Specifications

Use Case Model



Software Requirements Specifications

Use Case Tables

Sign up to profile

Use Case ID:	#1	
Use Case Name:	Sign up	
Actors:	User	
Pre-conditions:		
Post-conditions:	User will be registered in app	
Flow of events:	User Action	System Action
	1- User Enter application.	
		2-System displays to user sign up or log in page.
	3- User enter his username, password and the rest of his personal information.	
		4- System checks if data is identical to admission requirements. 5-System gives the user access to homepage.
Exceptions:	User Action	System Action

Phase 1 – Code black

Project: Event Organizer



Software Requirements Specifications

	1- User enters his username, password and the rest of his personal information.	
		2- username is already taken or password is not identical to admission requirements. 3- System asks User to reenter data pointing out to problem with previous data.
Includes:		
Notes and Issues:		

Log in to profile

Use Case ID:	#2	
Use Case Name:	Log in	
Actors:	User	
Pre-conditions:	User must have signed up in application	
Post-conditions:	User will be logged in to his profile	
Flow of events:	User Action	System Action

Phase 1 – Code black

Project: Event Organizer



Software Requirements Specifications

	1- User Enter application.	
		2-System displays to user log in page.
	3- User Enter his username and password.	
		4-System checks validity of username and password and gives user access to his profile.
Exceptions:	User Action	System Action
	1- User enter his username, password.	
		2- Username or password are incorrect. 3- System asks user to reenter data pointing out to problem with previous data.
Includes:		
Notes and Issues:		

Phase 1 – Code black

Project: Event Organizer



Software Requirements Specifications

Create an event

Use Case ID:	#3	
Use Case Name:	Create an event	
Actors:	User (Event creator)	
Pre-conditions:		
Post-conditions:	An event will be created. System adds created event to recently added events, it also will appear in recommended events for users following similar events.	
Flow of events:	User Action	System Action
	1- User Enter application.	
		2-System displays to user sign up or log in page.
	3- User Enter his username and password.	
		3-System checks validity of username and password and gives user access to his profile.
	4- User enters his profile and creates new event with small description and information.	
Exceptions:	User Action	System Action

Software Requirements Specifications

	1- User enter his username, password.	
		2- Username or password are incorrect. 3- System asks User to reenter data pointing out to problem with previous data.
	3-Users creates an event and specifies details of that event (place ,speakers, price,...)	
		4-Data given by User is incorrect or required data is missing. 5-System displays error message.
Includes:		
Notes and Issues:		

Delete an event

Use Case ID:	#4
Use Case Name:	Delete an event
Actors:	User (Event creator)
Pre-conditions:	An event should be already created.

Phase 1 – Code black

Project: Event Organizer



Software Requirements Specifications

Post-conditions:	1-Event will be deleted 2-System notifies users following that event that the event has been cancelled.	
Flow of events:	User Action	System Action
	1- User Enter application. 2- User log in to his profile. 3- View list of events created.	
		4-System displays to user list of events.
	5- User selects an event then choose to delete/cancel the event.	
		6- System will pop up a confirmation message asking the user whether he is sure he wants to delete selected event.
	7- User confirms that he wants to delete selected event.	

Software Requirements Specifications

		8-System removes deleted event from his created events list.
Exceptions:	User Action	System Action
	1- User selects an event then choose to delete/cancel the event.	
		2- Event was already deleted I.e,User clicked twice on delete button 3- System displays a message stating that event was already deleted.
Includes:		
Notes and Issues:		

Register for an event

Use Case ID:	#5
Use Case Name:	Register for an event
Actors:	User (Event attendee)
Pre-conditions:	
Post-conditions:	1-User will be registered in an event and should buy a ticket. 2-System adds user to list of attendees.

Software Requirements Specifications

	3- System adds similar events to User in recommended events and discover events sections	
Flow of events:	User Action	System Action
	1- User Enter application. 2- User log in to his profile. 3- User look for the desired event and chooses the event.	
		4-System displays event details (description, place , date and time)
	5- User register to an event by entering personal information required.	
		6- System will display buy a ticket message.
	7-User buys a ticket.	
Exceptions:	User Action	System Action
	1- User register to an event by entering personal information required.	

Software Requirements Specifications

		2-User enter invalid information or misses required information. 3-System asks user to register correctly.
Includes:	Buy a ticket	
Notes and Issues:		

Buy a ticket

Use Case ID:	#6	
Use Case Name:	Buy a ticket	
Actors:	User (Event attendee)	
Pre-conditions:	User should be registered in an event.	
Post-conditions:	1- The system sends a confirmation and adds user to list of attendees. 2- System displays similar events to User in recommended events and discover events sections.	
Flow of events:	User Action	System Action
	1- User Enter application. 2- User log in to his profile.	

Software Requirements Specifications

	3- User look for the desired event and chooses the event. 4- User register in the event. 5- User chooses to buy a ticket	
		6-System displays payment methods(credit, debit cards,..)
	7- User select payment method to pay for a ticket.	
		8- System displays payment fees.
	9- User enter data required and confirm payment.	
		10- System displays a confirmation number to the user.
Exceptions:	User Action	System Action
	1- User enter data required and confirm payment.	
		2-User enters incorrect data or credit card info.

Software Requirements Specifications

		3-System displays an error message that process couldn't be completed.
Includes:	Receive a confirmation. Get notifications on events.	
Notes and Issues:		

Receive a confirmation

Use Case ID:	#7	
Use Case Name:	Buy a ticket	
Actors:	User (Event attendee)	
Pre-conditions:	User should have bought a ticket.	
Post-conditions:	1- The system adds user to list of attendees. 2- System displays similar events to User in recommended events and discover events sections.	
Flow of events:	User Action	System Action
	1-User Enter application. 2-User log in to his profile.	

Phase 1 – Code black

Project: Event Organizer



Software Requirements Specifications

	3-User look for the desired event and chooses the event.	
	4-User register in the event.	
	5-User chooses to buy a ticket.	
		6-System displays payment methods(credit, debit cards,..)
	7- User select payment method to pay for a ticket.	
		8- System displays payment fees.
	9- User enter data required and confirm payment.	
Exceptions:		10- System displays a confirmation number to the user.
	11-User receives this confirmation	
	User Action	System Action
	1- User enter data required and confirm payment.	

Software Requirements Specifications

		<p>2-User enters incorrect data or credit card info.</p> <p>3-System displays an error message that process couldn't be completed.</p>
Includes:		
Notes and Issues:		

Join an event

Use Case ID:	#8	
Use Case Name:	join an event	
Actors:	User (Event attendee)	
Pre-conditions:		
Post-conditions:	<p>1- User will be following joined event and system notifies joined user with events updates and sends notifications.</p> <p>2-System displays similar events to User in recommended events and discover events sections.</p>	
Flow of events:	User Action	System Action
	1- User Enter application.	

Phase 1 – Code black

Project: Event Organizer



Software Requirements Specifications

	2- User log in to his profile.	
		3-System displays User's profile
	4-User look for the desired event and chooses the event. 5-User joins an event to follow that event and get frequent updates.	
Exceptions:	User Action	System Action
Includes:	Get notifications on events	
Notes and Issues:		

Phase 1 – Code black

Project: Event Organizer



Software Requirements Specifications

Attend an event

Use Case ID:	#9	
Use Case Name:	Attend an event	
Actors:	User (Event attendee)	
Pre-conditions:		
Post-conditions:	1-System will add user to list of attendees . 2- System displays similar events to User in recommended events and discover events sections.	
Flow of events:	User Action	System Action
	1- User Enter application. 2- User log in to his profile. 3- User look for the desired event and chooses the event. 4- User chooses to attend an event.	
		5- System asks user to enter required personal information.
	6-User enters his information and register.	
Exceptions:	User Action	System Action

Phase 1 – Code black

Project: Event Organizer



Software Requirements Specifications

	1- User enters his information.	
		2- Information was invalid. 3- System asks user to register again with valid information.
Includes:	Get notifications on events	
Notes and Issues:		

Leave an event

Use Case ID:	#10	
Use Case Name:	Leave an event	
Actors:	User (Event attendee)	
Pre-conditions:	User should have either chosen to join or attend an event.	
Post-conditions:	User will leave an event and won't get any notifications of that event.	
Flow of events:	User Action	System Action
	1- User Enter application. 2- User log in to his profile.	

Software Requirements Specifications

		3- System displays user's profile.
	4-User views list of events that he joined or attended and he chooses an event.	
		5-System displays event description.
	5-User leave an event.	
Exceptions:	User Action	System Action
Includes:		
Notes and Issues:		

Get notifications on events

Use Case ID:	#11
Use Case Name:	Get noitifications on events
Actors:	User (Event attendee)
Pre-conditions:	User should have joined, attended or registered for an event.
Post-conditions:	User will always be updated with info about events he is following.

Phase 1 – Code black

Project: Event Organizer



Software Requirements Specifications

Flow of events:	User Action	System Action
	1- User Enter application. 2- User log in to his profile. 3- User look for the desired event and chooses the event. 4- User joins, attend or buys a ticket of an event to follow that event and get frequent updates	
		5- System asks user to choose what kind of notifications he wishes to receive: a-All notifications b-Only important ones
	6-User chooses what he wants as default notifications.	
		7-System notifies users with updates.
Exceptions:	User Action	System Action

Phase 1 – Code black

Project: Event Organizer



Software Requirements Specifications

Includes:		
Notes and Issues:		

Follow other users

Use Case ID:	#12	
Use Case Name:	Follow other users	
Actors:	Users	
Pre-conditions:		
Post-conditions:	User will receive notifications with other user's updates.	
Flow of events:	User Action	System Action
	1- User Enter application. 2- User log in to his profile. 3- User look for other users he wishes to follow and chooses a profile.	4-System displays user profile viewing his events and activities and a follow option is available.

Software Requirements Specifications

	5-User follows another user's profile.	
		6-System send notifications with that user updates.
Exceptions:	User Action	System Action
Includes:		
Notes and Issues:		

Discover events

Use Case ID:	#13	
Use Case Name:	Discover events	
Actors:	User (Event attendee)	
Pre-conditions:		
Post-conditions:	Events in discover event section will be displayed to user	
Flow of events:	User Action	System Action

Software Requirements Specifications

	1- User Enter application. 2- User log in to his profile. 3- User look for the desired event by going to discover events section.	
		4-System displays events in discover events section.
	5-User chooses an event	
		6-System displays event info (description, place, date and time)
Exceptions:	User Action	System Action
	1- User look for the desired event by going to discover events section.	
		2-A problem happened with API 3-Events will not be displayed
Includes:		
Notes and Issues:		

Software Requirements Specifications

Edit an event

Use Case ID:	#14	
Use Case Name:	Edit an event	
Actors:	User (Event creator)	
Pre-conditions:	An event must be previously created.	
Post-conditions:	Event will be updated and all users following that event will be notified with updates.	
Flow of events:	User Action	System Action
	1- User Enter application. 2- User log in to his profile. 3- User views list of created events.	
		4- System displays user's created events.
	5-User chooses an event.	
		6-System display all event details and an option to edit a previously created event.

Software Requirements Specifications

	7-User will be able to edit event features (price ,place,..)	
		8-System notifies users with updates.
Exceptions:	User Action	System Action
	1- User will be able to edit event features (price ,place,..)	
		2-User updates an event with inaccurate data or deletes a necessary info (event place). 3-System displays error message and keeps the old version of event description without updating.
Includes:		
Notes and Issues:		

Search for upcoming events

Use Case ID:	#15
Use Case Name:	Search for upcoming events
Actors:	User

Phase 1 – Code black

Project: Event Organizer



Software Requirements Specifications

Pre-conditions:		
Post-conditions:	Events matching search criteria will be displayed	
Flow of events:	User Action	System Action
	1- User Enter application. 2- User log in to his profile.	
		3-System displays user's profile.
	4- User search for an event by name, category, place,..etc in search bar.	
		5-System displays list of events matching search input
Exceptions:	User Action	System Action
	1- User search for an event by name, category, place,..etc in search bar.	
		2-A problem happened with API 3-No search results will be shown only "A Network error" message.
Includes:		
Notes and Issues:		

Software Requirements Specifications

View recommended or recently added events

Use Case ID:	#16	
Use Case Name:	View recommended or recently added events	
Actors:	User	
Pre-conditions:		
Post-conditions:	A list of events matching user's interests will be displayed	
Flow of events:	User Action	System Action
	1- User Enter application. 2- User log in to his profile. 3- User goes to recommended or recently added events section	
		3-System displays list of events matching user's interest.
Exceptions:	User Action	System Action
	1- User goes to recommended or recently added events section	

Software Requirements Specifications

		2-A problem happened with API 3-Events will not be displayed
Includes:		
Notes and Issues:		

Edit profile settings and preferences

Use Case ID:	#17	
Use Case Name:	Edit profile settings and preferences	
Actors:	User	
Pre-conditions:	User must be registered in application	
Post-conditions:	User profile will be updated and users following him will be notified.	
Flow of events:	User Action	System Action
	1- User Enter application. 2- User log in to his profile.	
		3-System displays user's profile, user have an option to edit his profile settings.

Software Requirements Specifications

	4-User goes to profile settings and updates his info.	
		5-Systems displays a message asking user to confirm update.
	6-User saves or discard changes.	
Exceptions:	User Action	System Action
	1-User goes to profile settings and updates his info.	
		2-User edit his profile with incorrect information(invalid username) or deletes important information. 3-System displays a message that data is invalid and user's profile isn't updated.
Includes:		
Notes and Issues:		

Software Requirements Specifications

Ownership Report

Item	Owners
Use cases: #14, #15, #16 2-Non-functional requirements: Use-ability-Reliability-Performance	Moamen Khaled Mohamed
1-Use cases: #11, #12, #13, #17 2-Non-functional requirements: Cross-platform-security	Amr Ibrahim Mohamed
Use cases: #1, #2, #3, #4 2-Non-functional requirements: Scalability-Screen Adaption	Haidy Yasser Mohamed
Use cases: #5, #6, #7 2-Non-functional requirements: Availability-Portability-Compatibilty	Nourelhoda Essam Lofty
Use cases: #8, #9, #10 2-Non-functional requirements: Fault detection and removal- Responsivness	Nour Hassan Abdulatif Mohamed