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Final Report

SEG 2105 – Introduction to Software Engineering

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University of Ottawa

Group 16:

Lili Rose Théoret, 300342096

Lina El Yacoubi, 300350357

Niama Ahansal,300386816

Hiba Ahansal,300386817

Alae Kabir, 300357880

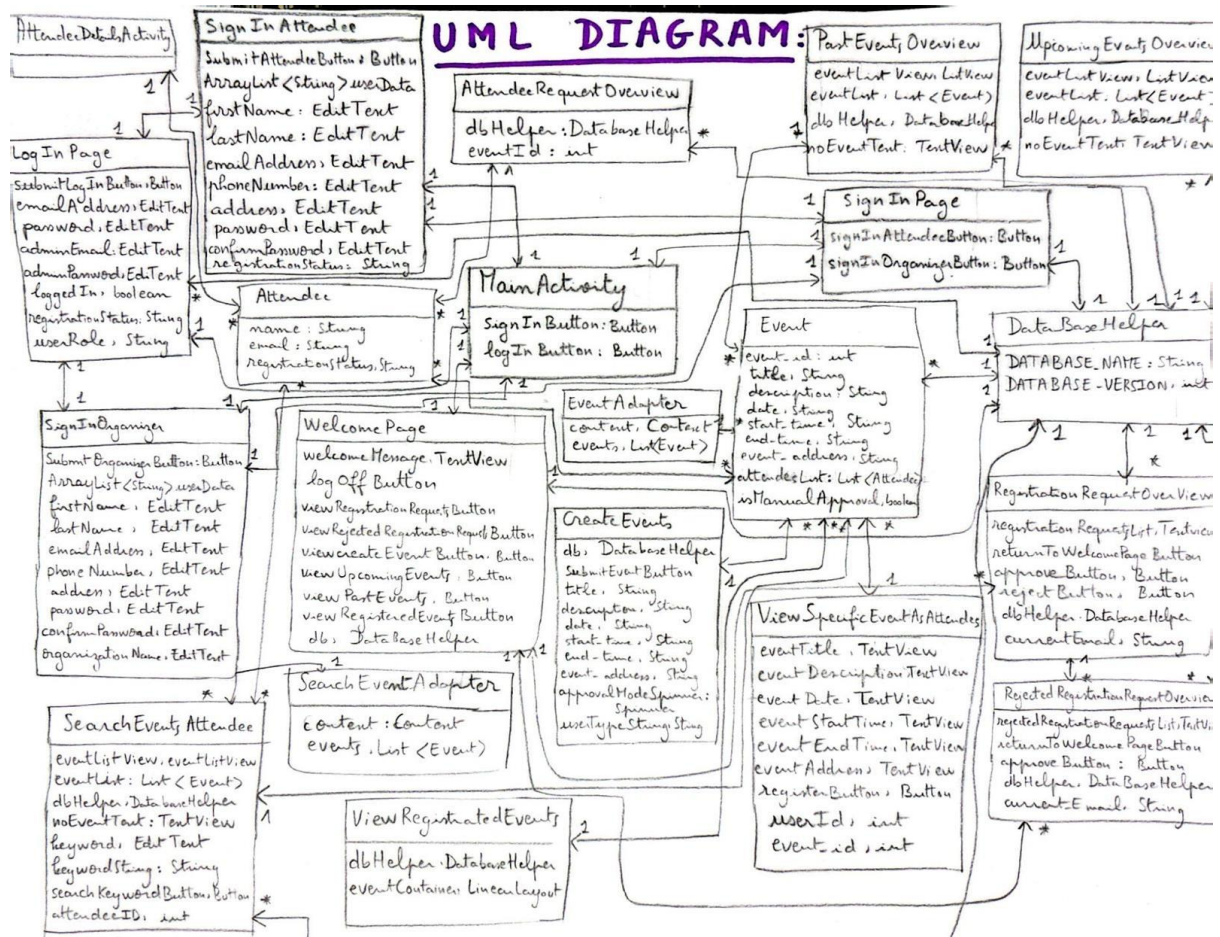Basma Ben Taleb, 300383179

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1.Short intro:

The Event Attendance Management System (EAMS) is a mobile application designed to facilitate seamless event registration and attendance tracking for university-organized events. It supports three user roles: Attendees, Organizers, and Administrators, each with specific functionalities to manage their respective tasks effectively. This report outlines the implementation details, team contributions, screenshots, and lessons learned during the development process.

2.Updated UML Class Diagram:

Description: This UML diagram illustrates the structure of the EAMS system, showing the relationships between the classes associated with each role (Attendee, Organizer, Administrator) and the functionalities implemented across all deliverables.
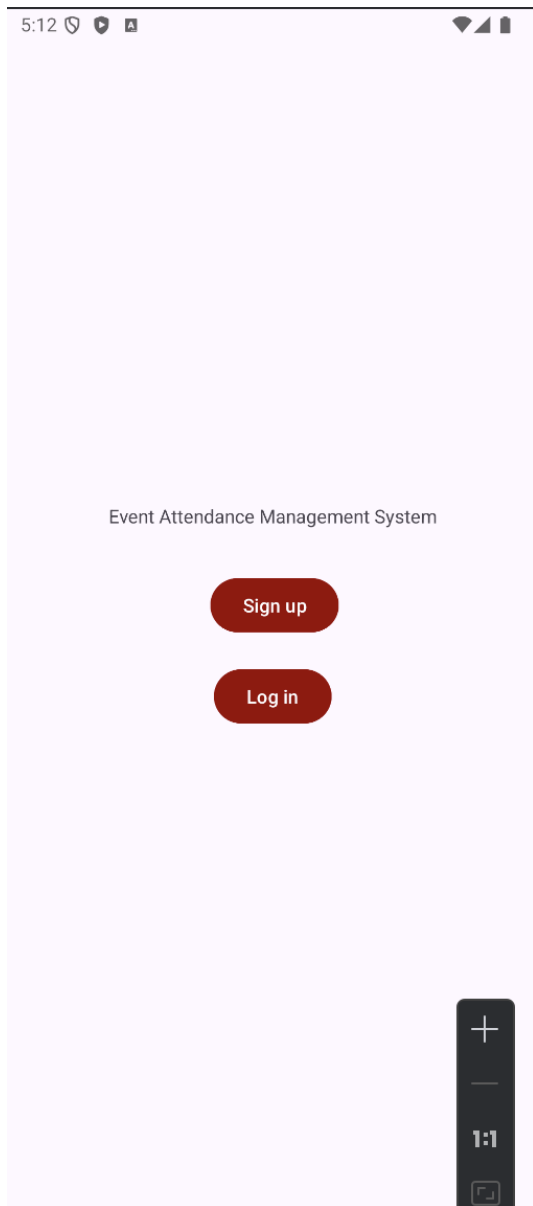
3. Table specifying each team member contributions by Deliverable

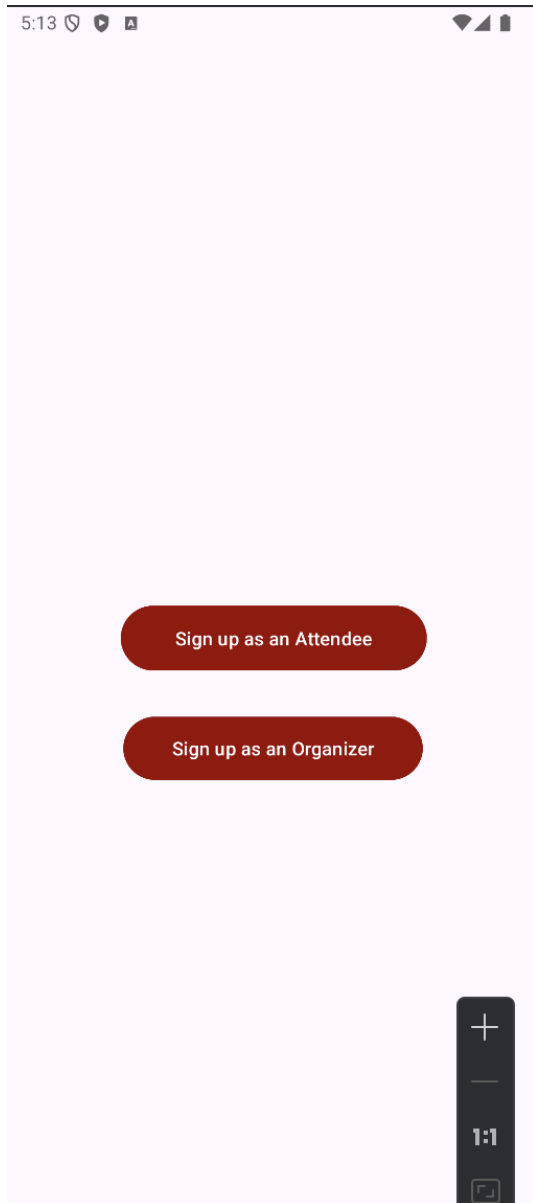| Name	Deliverable 1	Deliverable 2	Deliverable 3	Deliverable 4
Lili Rose Théoret	Sign up as an Attendee, Sign up as an Organizer, General Sign up page, Log in as an Admin	Login Functionality Based on Registration Status Administrator Features, View the registration requests list and the rejected requests list with user's info	View Events (Past and future) as an Organizer - Field Validation and Error Messages, Fix bugs in Create Events, Database update, Fix bugs in the Manual vs Automatic Approval, Start and End Time in 30-min increments, Demo Video	Search Events + View Events as an Attendee - Field Validation and Error Messages, Fix bugs with event_id, viewing attendees' requests and attendees' registered events
Lina El Yacoubi	Log in Page APK + Demo Video Submission	Created SQLite Database for Storage and for Registration Approve/ reject a request for administrator and view info for each request APK + Demo Video Submission	Event Creation Date Validation Event Deletion Field Validation and Error Messages UML Class Diagram APK + Submission	View Registered Events - Register to events and events disappearing from search page Field Validation and Error Messages APK + Demo Video Submission LessonsLearned +Intro
Hiba Ahansal	Log Off Functionality Welcome Page UML Class Diagram	Administrator Features UML Diagram	Attendee Registration Management - Field Validation and Error Messages	Cancel Registration - Field Validation and Error Messages- Fix bugs in Manual and Automatic approval,Intent to view the list of attendees
Niama Ahansal	UML Class Diagram - Log in as an attendee - Log in as an organizer Log in administrator Resolved bug in welcome screen	Approve / Reject registration UML Class Diagram	Attendee Registration Management - Field Validation and Error Messages	Registration Status Indicator - Field Validation and Error Messages

Basma Ben Taleb	Welcome Screen UML Class diagram	Rejected Registration Requests	Manual and Automatic Registration Approval - Field Validation and Error Messages	Request Event Registration - Field Validation and Error Messages UML Class diagram
Alae Kabir	Field Validation	Rejected Registration Requests - Notifications	Event Deletion - Field Validation and Error Messages	Event Deletion - Conflict Prevention - Field Validation and Error Messages

4. Screenshots of the App :

Main Page :

Sign Up Page :

1:41

SIGNING IN AS AN ATTENDEE

Please fill in all the following fields

First name

Last name

Email address

Phone number

Address

Create a password

Confirm the password

Submit

1:41

SIGNING IN AS AN ORGANIZER

Please fill in all the following fields

First name

Last name

Email address

Phone number

Address

Create a password

Confirm the password

Organization name

Submit

Log In Page

5:16

Please enter your email address and your password

niama.ahansal611@gmail.com

•••••

Submit

Your registration request has not been processed yet, approval is pending.

+

—

1:1

Welcome Administrator!

Log Off

Registration Requests

Rejected Registration Requests

List of registration requests

Name: Niama Ahansal
Email: niama.ahansa@gmail.com
Role: Attendee
Phone number: 5149789954
Address: K1H 9B9

approve

reject

Return to Main Page

1:1

List of rejected registration requests

There are no rejected registration requests.

approve

Return to Main Page

Welcome Attendee!

Log Off

Search for events

Registered Events

Search for events with a keyword   Enter keyword

Search

There are no events corresponding to your search.

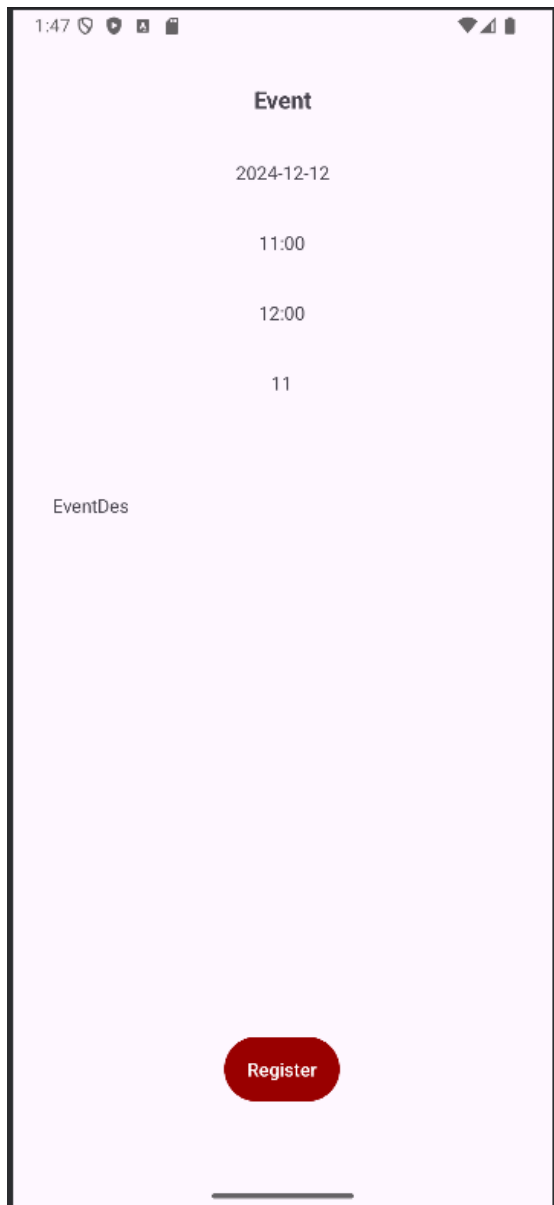Search for events with a keyword   Event

Search

Event
Date: 2024-12-12
From: 11:00
To: 12:00

Information

After clicking on register

Search for events with a keyword   Event

Search

Title: Event
Description: EventDes
Date: 2024-12-12
Time: 11:00 - 12:00
Address: 11
Status: approved

CANCEL REGISTRATION

SIGNING IN AS AN ORGANIZER

Please fill in all the following fields

organizer

TheOrganizer

organizer@gmail.com

514967896 ⊗

Phone number must be 10 digits

jhgfa

•••••

•••••

FoodService

Submit

Welcome Organizer!

Log Off

Create an event

View upcoming events

View past events

1:45

Please fill out the information about your event !

Event

EventDes

2023-12-12

11:00

12:00

11

Automatic Approval ▼

Submit

Please select a valid date.

List of the upcoming events

Event
EventDes
Date: 2024-12-12
From: 11:00
To: 12:00
Address : 11

Requests

Delete

List of the past events

There are no past events.

5. Lessons Learned:

The development of the Event Attendance Management System (EAMS) was a valuable learning experience that highlighted both technical and collaborative challenges. On the technical side, integrating SQLite for persistent data storage required a deep understanding of database operations and synchronization with the application's functionalities. Another learning experience was to use adapters to be able to visualize lists of elements. Additionally, implementing field validation and error messaging improved user experience but demanded careful attention to edge cases. Also, it emphasized the importance of effective communication within a team. Clear and open communication ensures that tasks are coordinated efficiently and challenges each member encounters are addressed promptly. If a team member encounters an issue or faces difficulties, he/she should share the problem early allowing the team to collaborate on solutions and maintain steady progress and meet deadlines. This experience highlighted the importance of communication between team members in resolving problems because clear and open communication allow challenges to be addressed collaboratively and ensure steady progress throughout the development process.

In general, the development of this application was very valuable to learn about application development and the Android Studio environment, but also to master Git and GitHub when working in a team. It was also a way to introduce user interactions with the app and to learn about the design of user interface. Finally, this project was a good way to gain experience with problem solving while learning new tools to create a functioning application.