

# ERP-Application Analysis and Design

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## **COURSE OBJECTIVE**

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Software's have become essential components of everyday life in modern society. This course stresses on the fundamentals of software modeling and design. The primary goal of this course is to give the necessary knowledge and skills to setup, develop and maintain conceptual and physical data model.

## PROJECT SCOPE

This project will consist of creating a UML design of face book application which is the social media on internet. The project is completed at 28 April, 2016. Modules of the face book application will include a Login; Create an Account, Upload pictures and Videos, Send and Receive Message and Log Out.

## OVERVIEW

Face book is a corporation and an online social networking service headquartered in Menlo Park, California, in the United States. Its website was launched on February 4, 2004, by Mark Zuckerberg .The founders had initially limited the website's membership to Harvard students, but later expanded it to colleges in the Boston area, the Ivy League, and Stanford University. It gradually added support for students at various other universities and later to high-school students. Since 2006, anyone in general who has attained an age of 13 years or more has been allowed to become a registered user of the website, though variations in the minimum age requirement exist depending on applicable local laws. Its name comes from the face book directories often given to American university students.

## ABOUT US

The group consists of 4 members. The group name is IUAA Tech Inc. Below is the detail information of group members of group members.

Arsalan Maqbool Chaduary     *(Group Leader)*  
59027

Irfan Ullah Kalmati  
59227

Syed Usama Akhtar  
6887

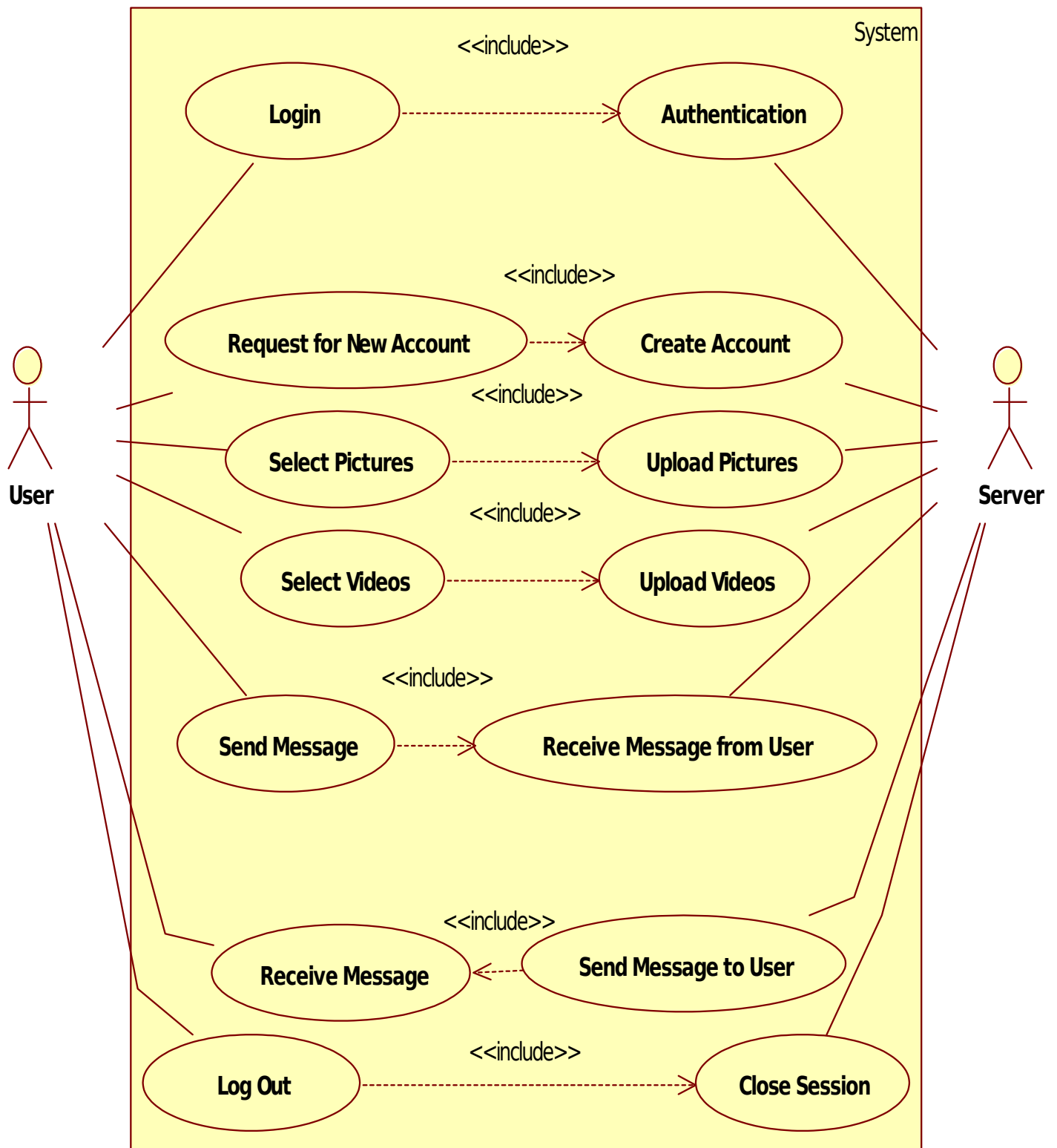
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Muhammad Abdullah Abbasi (*ABBASi One: 1*)  
59150

## USE CASE DIAGRAM

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## FLOW OF EVENTS: LOGIN

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## Preconditions

The user must have an Account in order to execute Login or Sign-in on face book.

## Main Flow

The use case begins by entering Email or Phone No. and password and system verifies that the Email OR Phone No. and password is valid (E1). After verification the system will open his profile (S1). If user forgets the password the system will able to resolve the problem (E2).

## Sub Flow

S1: After verification the system opens user profile prepare news feed, suggest friends, retrieve notifications, retrieve message, ready to upload Media, show groups, show pages, show game activities, Ready to send message.

## Alternative Flow

E1: An invalid Email OR Phone No. and password is entered which is not exists in user database. Then the user can re-enter login details but only for three attempts or user can terminate the use case.

E2: If user forgets the password the system will display the account lock screen, send warning message and prompt to enter new password or user can terminate the use case.

## FLOW OF EVENTS: CREATE AN ACCOUNT

### Preconditions

The user must request for new account in order want an account on face book

### Main Flow

The use case begins when user sends a request for a new account and system open a new form to enter new account details. The user will enter Name, Email, and Phone No. , Password and Date of birth (E1). Then system will verify all information (E2). If all information if correct the system will send a verification message or code to provided Email or Phone No (S1). After activation the system will open the new account, suggest friends (S2).



## Sub Flow

S1: After receiving the verification code on Phone or message on provided Email. Then user must enter code on screen or click the link mentioned on Email which will activate the account.

S2: After activation the system will open new account prepare the news feed, suggest friends, and provide guidelines for using face book.

## Alternative Flow

E1: The system verifies the date of birth. If age is less than 16 the system prompt a message that user is not eligible or re-enter the date of birth or user can terminate the use case.

E2: After filling all fields the system will verify all information. If information is incorrect or already exists in database the system will prompt a message to re-enter details or user can terminate the use case.

## FLOW OF EVENTS: UPLOAD PICTURE/VIDEO

### Preconditions

The user must select pictures or videos if user wants to upload media on face book.

### Main Flow

The use case begin by clicking on Add photos/Videos tab this will open a dialog box. The user will select a picture/video to upload. After selecting the picture/video the system will read size (E1) and format (E2). Then system asks the user to choose upload type (S1). After selecting the upload type the system will save picture/video in user database and upload the picture/video.

### Sub Flow

S1: After selecting picture/video the system will asks to choose upload type whether user want to change profile picture, cover photo OR user want to upload picture/video on group, page or user timeline.

### Alternative Flow

E1: After selecting picture/video the system will read the size. If size is greater than supported size the system shows a message of unsupported size and to re-select the picture or user can terminate the use case.

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E2: After selecting picture/video the system will read the format. If unsupported format is found the system shows a message of unsupported format and to re-select the picture or user can terminate the use case.

## FLOW OF EVENTS: SEND & RECEIVE MESSAGE

### Preconditions

The user must send message in order to save message in database and receive message from other user.

### Main Flow

The use case begins from user by sending message to 2<sup>nd</sup> user. The system will first receive the message from user (S1). Then system will send message to 2<sup>nd</sup> user (E1). Now the 2<sup>nd</sup> user will send message and then the system will first receive the message from user and send to 1<sup>st</sup> user.

### Sub Flow

S1: When system receive the message from both sides it save message to their database.

### Alternative Flow

E1: When system receives the message it will send the message to other user. If internet connection problem occurs the system will show the error message on chat box. The user will try to re-send the message or terminate the use case.

## FLOW OF EVENTS: LOG OUT

### Preconditions

The user must execute log out use case in order to close session or close profile.

### Main Flow

The use begins from user by clicking the log out. The system will check the ongoing activity (S1).

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## Sub Flow

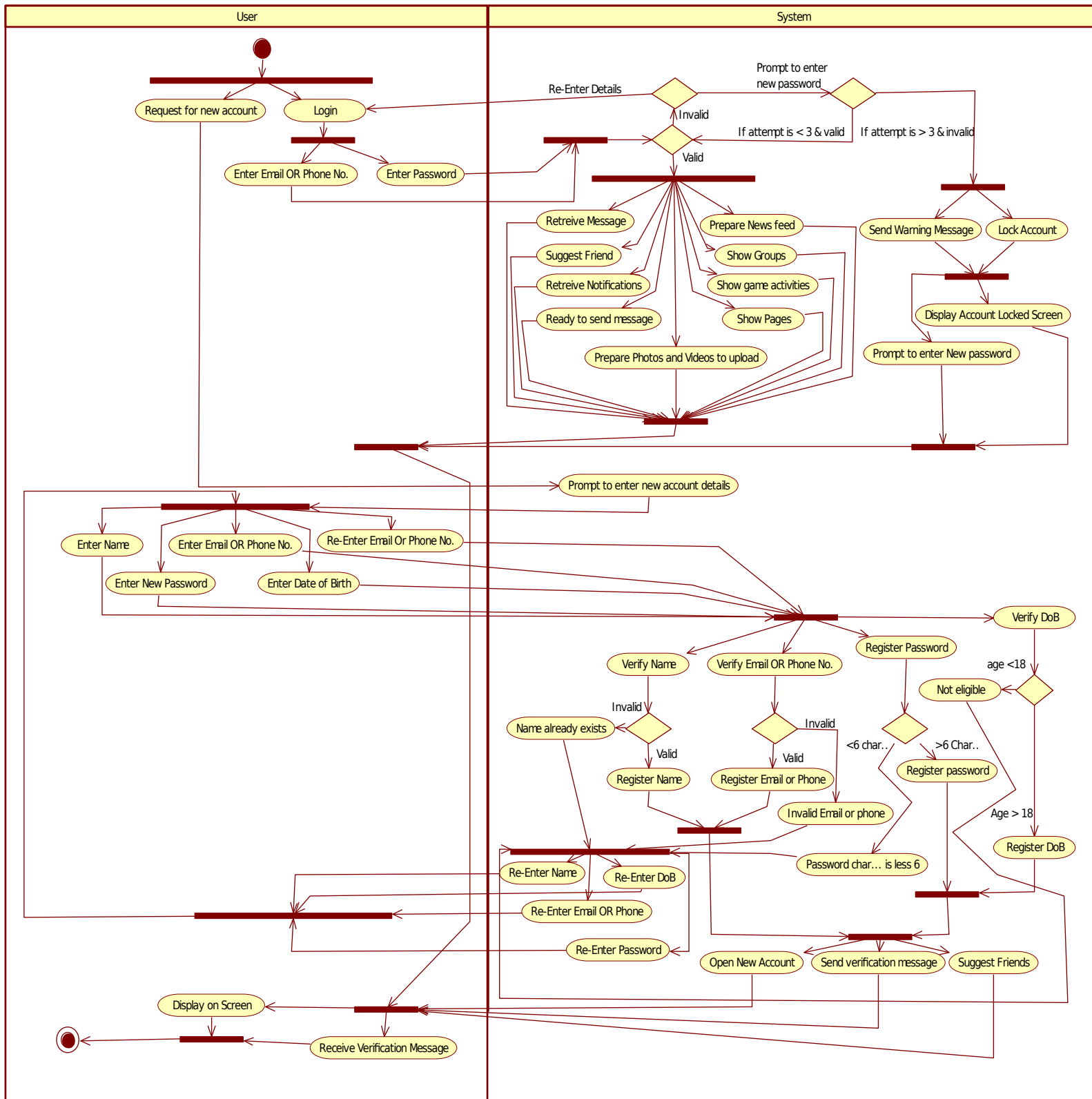
After execute log out the system will check the ongoing activity. If there is an activity on run the system will prompt a warning message to cancel log out or cancel the current activity. The user will cancel log out or cancel the activity.

## Alternative Flow

N/A

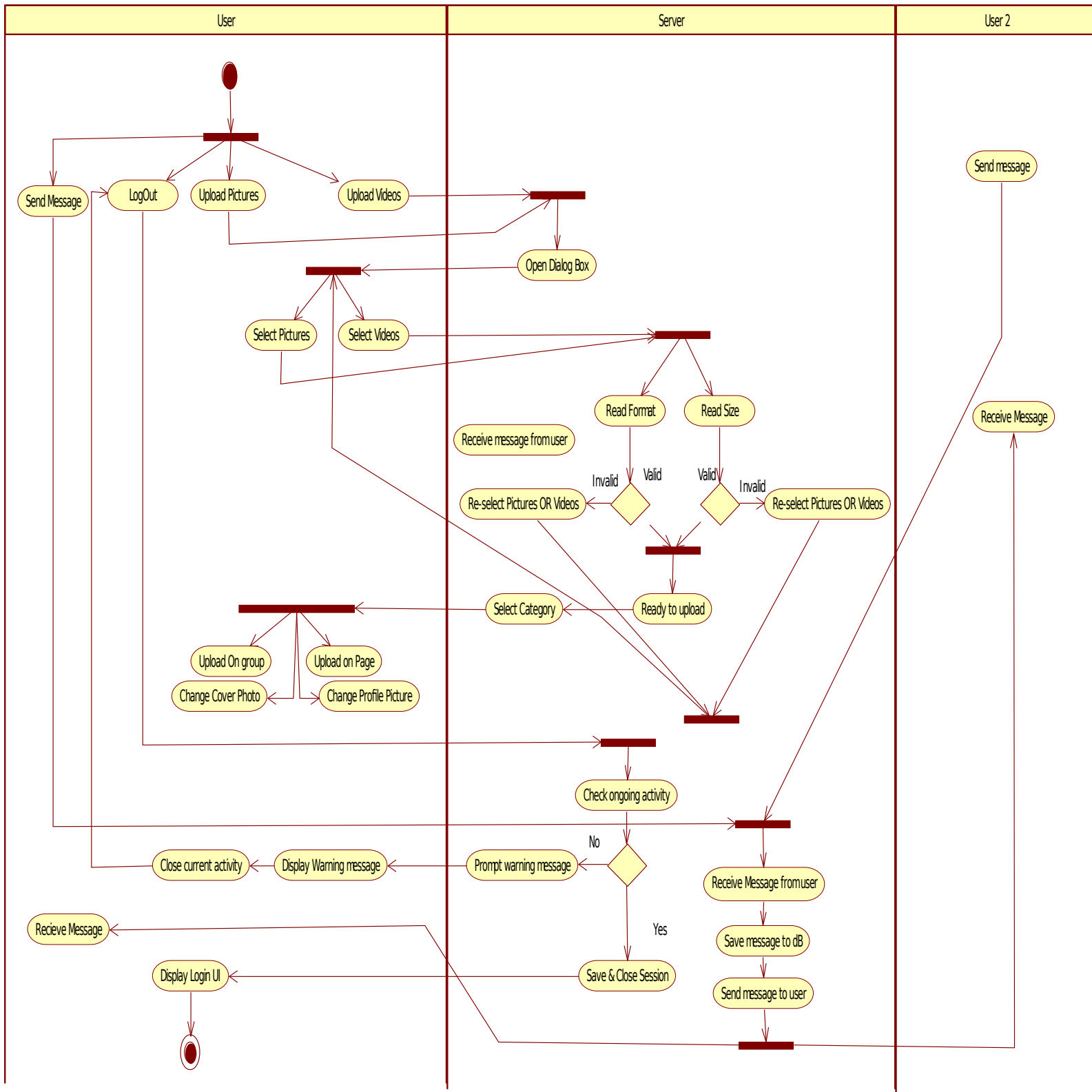
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## ACTIVITY DIAGRAM: LOGIN AND CREATE ACCOUNT

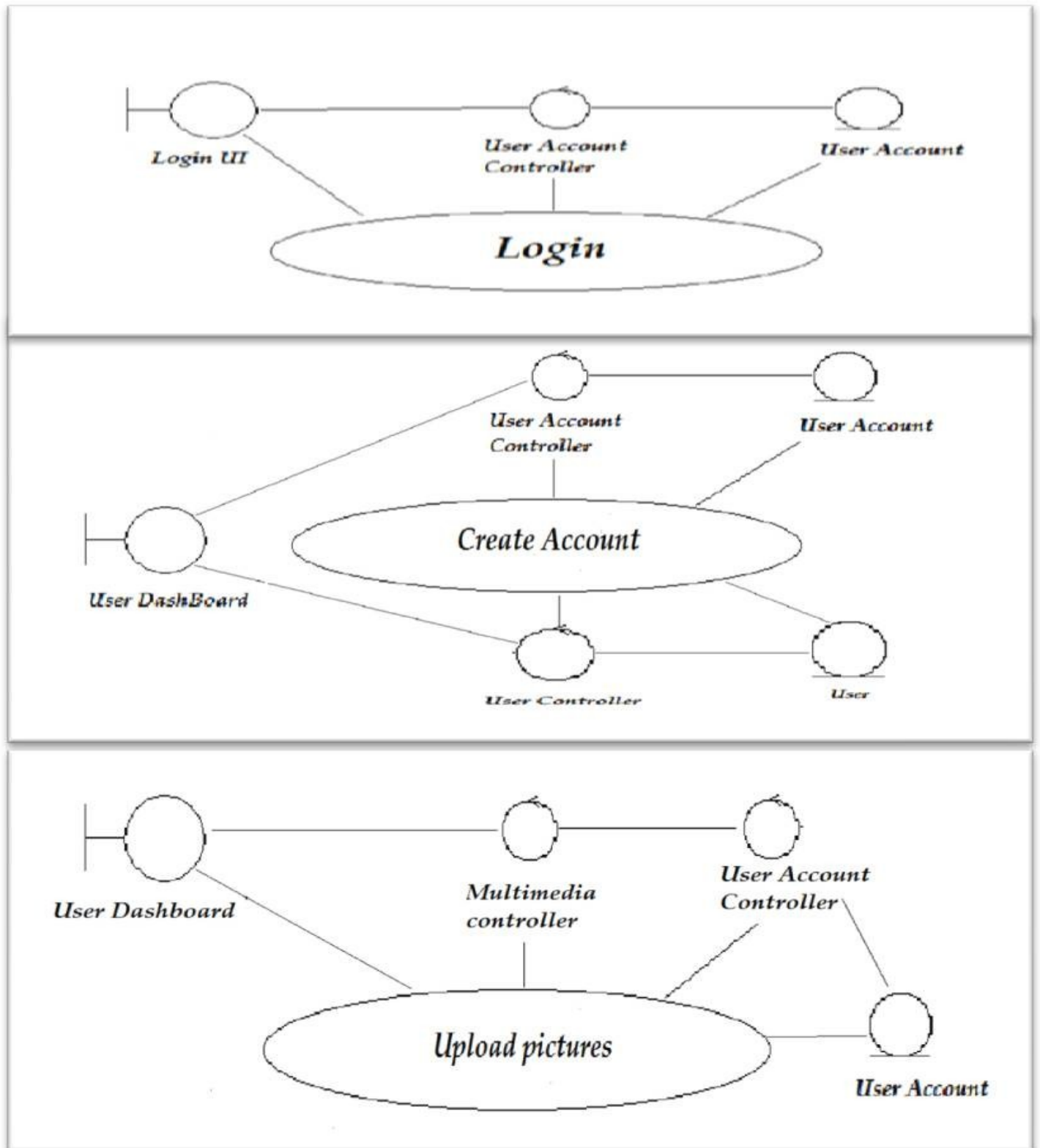


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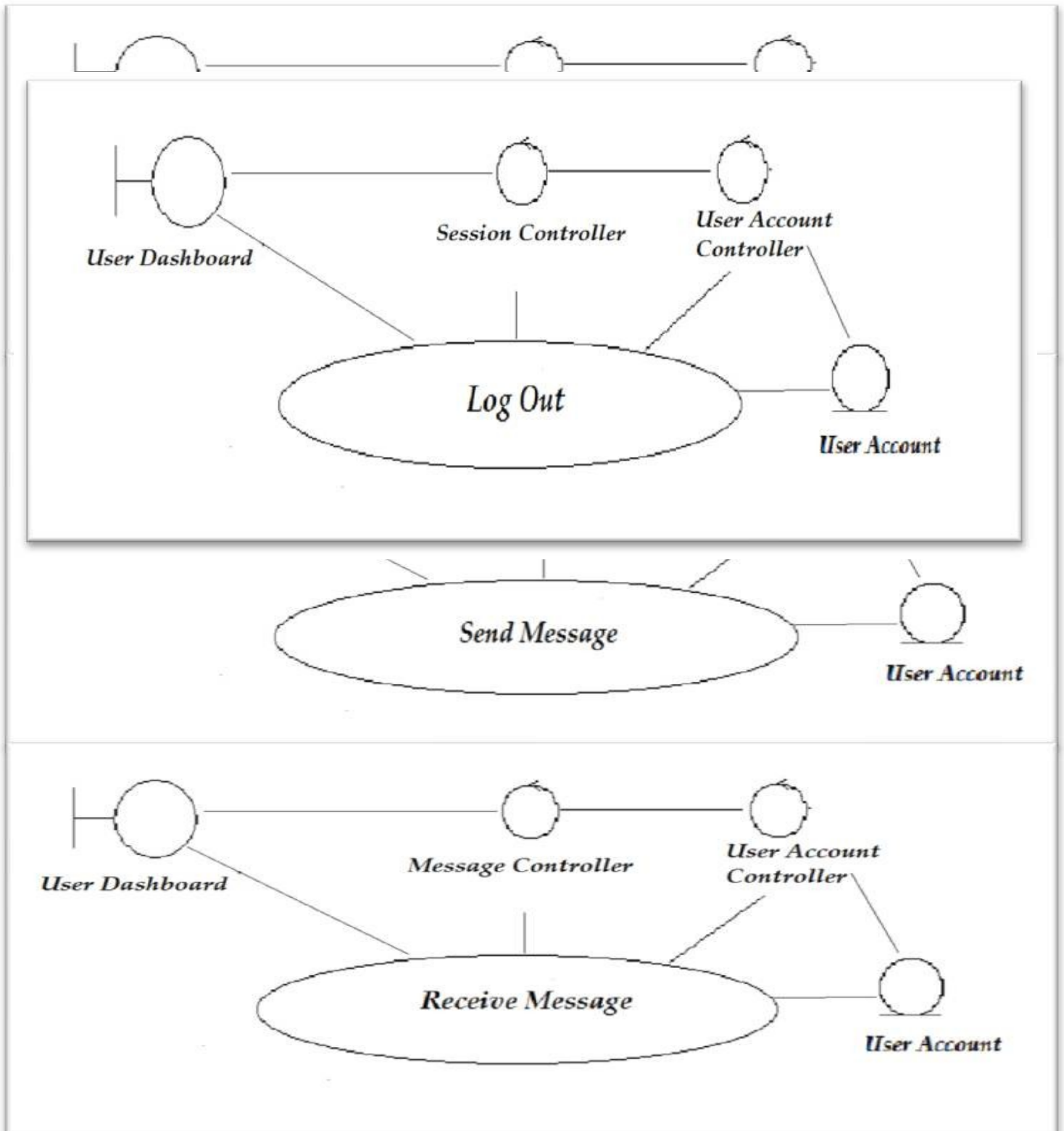
## ACTIVITY DIAGRAM: UPLOAD, SEND & RECEIVE LOG OUT



## REALIZATION OF USE CASE



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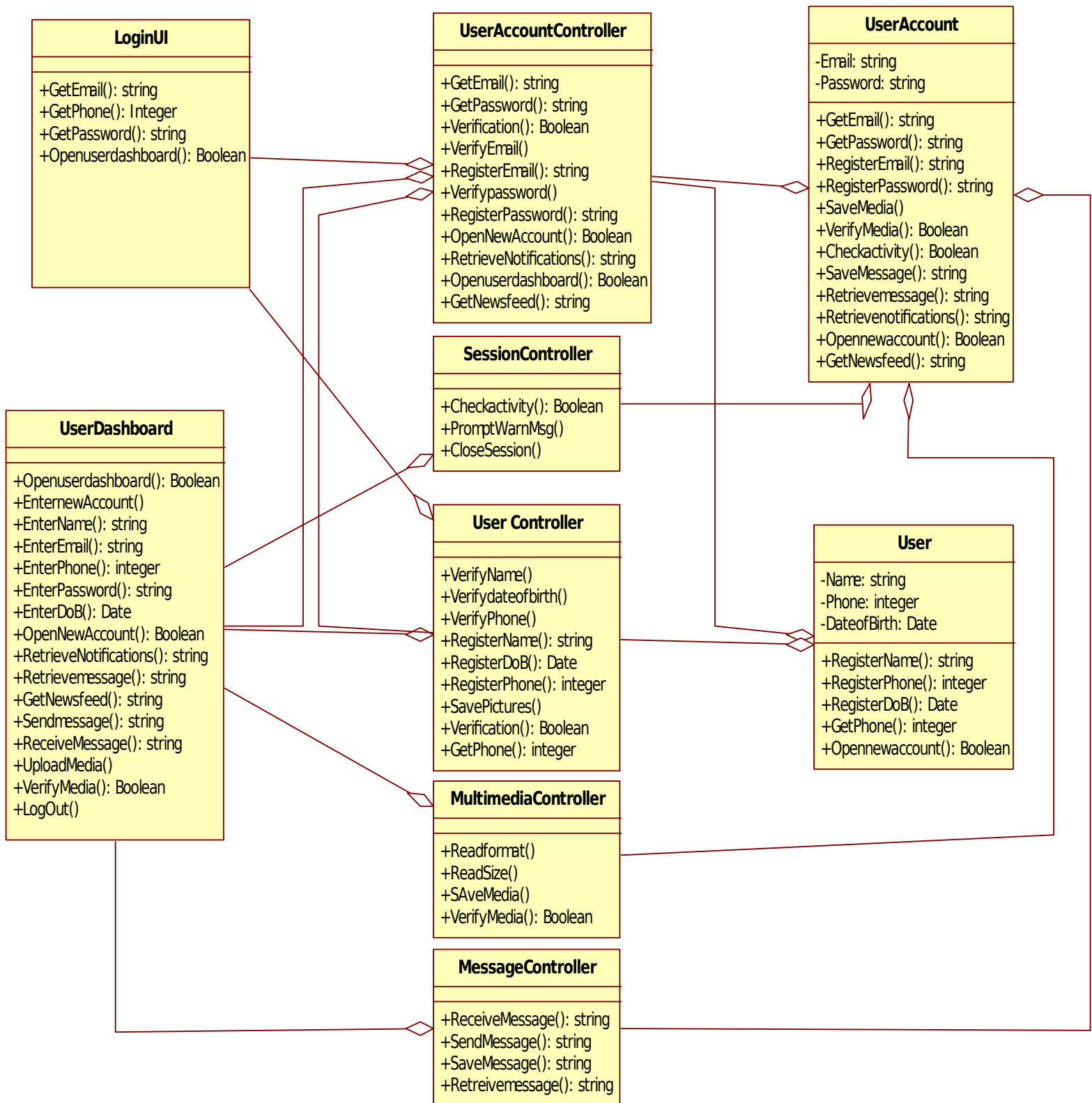
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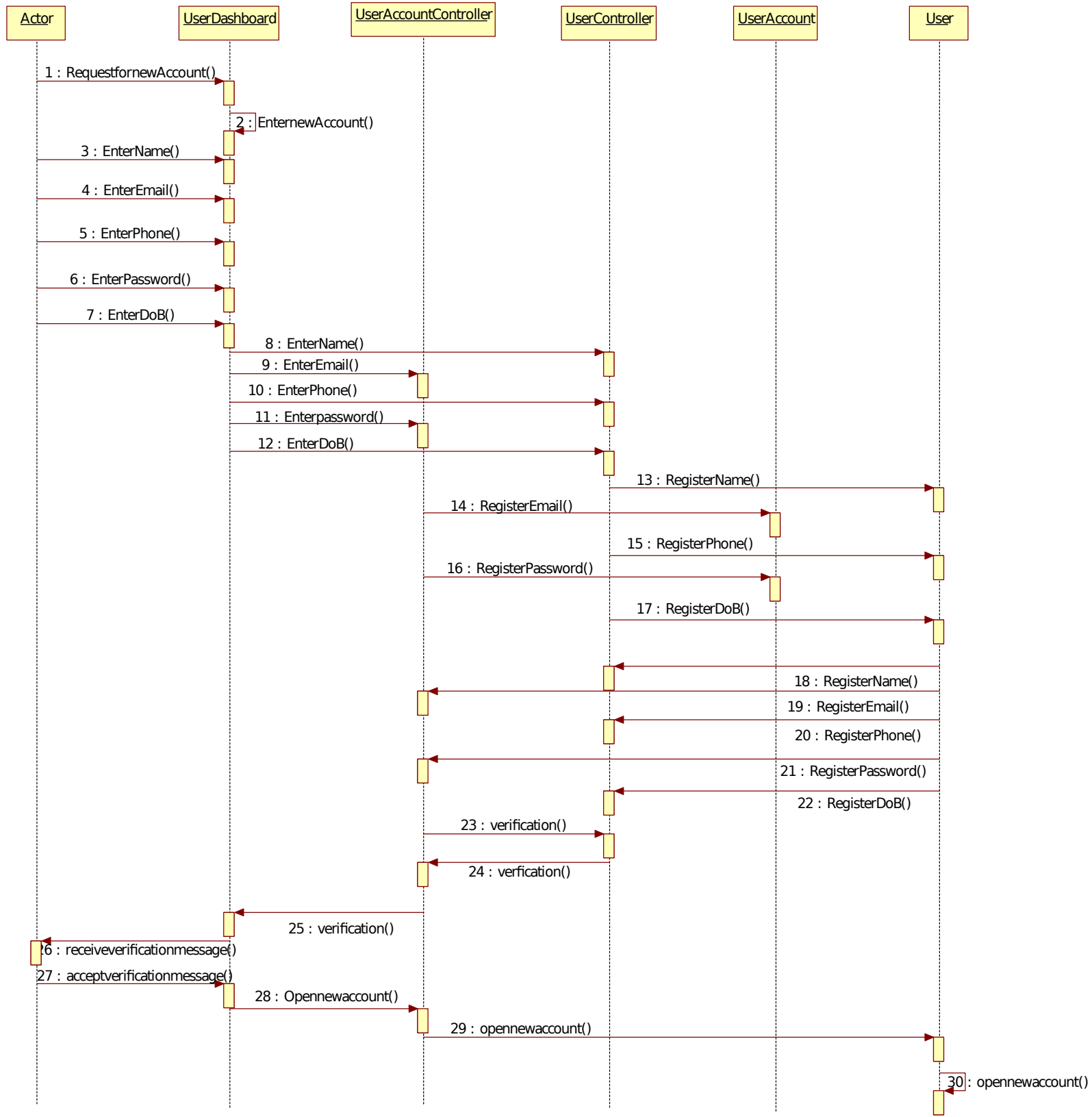
## CLASS DIAGRAM

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## **SEQUENCE DIAGRAM: CREATE ACCOUNT**

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## SEQUENCE DIAGRAM: LOGIN, UPLOAD, SEND/RECEIVE MESSAGE AND LOG OUT

