

**COMSATS**

**University Islamabad, Lahore Campus**

***Lab 1***

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| Course Title: | Object Oriented Software Engineering | | | | Course Code: | CSC 304 | Credit Hours: | 3(2,1) |
| Course Instructor | Yella Mehroze | | | | Semester | Spring 2021 | | |
| Semester: | 4th | Batch: | Fa19-BSE | Section: | A , B | Theory/Lab | Lab Task | |

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# Outline

* **To Learn the difference between different applications (apparently having same nature)**
* **To form the basis for learning the concept of “writing problem statement”**

## Task 1

**Consider the following applications and fulfil the table given by the end.**

o **Whats app** o **Telegram** o **Bip** o **Messenger** o **Tello Talk** o **Snap chat**

**Methodology**

* Install all of the mentioned applications on your mobile.
* Try to explore every application as much as you can.
* Try to differentiate between them
* Insert the screen shots of applications for which you find prominent differences Think the purpose for which the applications have been developed.
* Write down the idea (which we will later convert formally into problem statement) for which each application is developed.
* **Paste all your solutions in this document and upload it by renaming it with your registration ID , Also write you registration ID and name in the space provided.**

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CUI Lahore Campus

***ToDo***

* Fulfil the table provided
* Upload the table in Google Class Room Discuss them with the teacher.

**Comparison between applications**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **WhatsApp** | **Telegram** | **Bip** | **Messenger** | **Tello Talk** | **Snap chat** |
| 1 Display Pic | 3 Display Pics | 1 Display Pic | 1 Display Pic and Video | 1 Display Pic | Bitmoji Option |
| Groups included  (256 members) | Groups included  (200000 members) | Groups included  (400 members) | Groups included  (250 members) | Groups included | Groups included  (32 members) |
| Group calls  (8 members) | No Group calls | Group calls | Group calls  (8 members) | Group calls | Group calls  (8 members) |
| Video, Photo  Sending option | Video, Photo  Sending option | Video, Photo  Sending option | Video, Photo  Sending option | Video, Photo  Sending option | Video, Photo  Sending option  (Temporary) |
| Story Option | No Story Option | No Story Option | Story Option | Story Option | No Story Option |
| Doc file and APK file transfer | Any file up to 1.5 GB | File can be send. | No file transfer option | Random files are send. | No file transfer |

**Relevant screen shots of interfaces (if find necessary to paste)**

**Idea behind the development of application**

**WhatsApp**

It was developed so that people can stop missing calls and can interact through messages. WhatsApp was created in 2009 by two ex-Yahoo employees who wanted to make free communication available to all. WhatsApp uses a customized version of the open standard Extensible Messaging and Presence Protocol (XMPP).

**Telegram**

It was developed because their owner wanted to give a competition to WhatsApp and whenever WhatsApp got failed, the users shifted to telegram. Telegram uses a symmetric encryption scheme called MTProto. The protocol was developed by Nikolai Durov and other developers at Telegram and is based on 256-bit symmetric AES encryption, 2048-bit RSA encryption and Diffie–Hellman key exchange.

**Tello Talk**

It is a local made application. The motive to bring this application was to make people use their country’s own application to promote our local developers worldwide so this App could get more recognition. TILISM technology is used in development of this application.

**Bip**

Bip is a Turkish local app. It was also developed to support their own developers so that people could use their own product instead of giving benefit to the other international applications.

**Messenger**

Messenger was developed to make Facebook more versatile so that people can take benefits from both of the platforms at the same time. Its purpose was to separate messaging feature from the main application.

**Snap chat**

Snapchat is a popular messaging app that lets users exchange pictures and videos (called snaps) that are meant to disappear after they're viewed. The specific area of Computer Vision that Snapchat filters use is called Image processing. Image processing is the transformation of an image by performing mathematical operations on each individual pixel on the provided picture.

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