**PROJECT TOPIC - ONLINE PHOTO LIBRARY**

**IDEA PROPOSAL & RESEARCH-**

**1) What is/are the problem/s you want to solve? Please provide background based on research.**

We want people to have all their photos saved on an external server like firebase, to help them save their devices internal storage and to protect data from losses.

Example- These days it is difficult to retrieve or transfer photographs when people change their devices or the platform on which they operate. An online photo library would resolve these issues and further help users to access data from multiple devices. Based on research, we plan to work on real time upload speed and no loss of data resolution.

**2) Who are the users you are targeting? Please use a Persona to describe your users and draw a picture of your target user.**

We plan on targeting elderly and the mid-aged people as the application would be easy to use and access. Let us consider the case of Mukesh, he is in his early 50’s and works in the IT industry. He travels often and captures all his memories on his device. The Online Photo Library Application would help him store and preserve his images with great ease. He wouldn’t have to use external storage devices nor would he have to worry about loosing them. He loves to use a photo library application that would help keep his images and provide easy access to the photos whenever needed.

**3) What are the major features of the solution? List the features.**

The major features include –

i) simple User Interface

ii) Real time photo upload

iii) No loss of picture resolution

iv) Multi-device access

**4) How is this solution unique? How does it relate to existing solutions on the market? What are 3 solutions similar or related to what you want to do in the Google Play Store. Do the research and know that you are probably not reinventing the wheel!**

According to our research, we have found similar applications such as Flickr, shoebox and Photobucket. We are trying to resolve some of the existing issues in these applications as well as simplify the UI, make it free to use(up to 1GB) and access, no advertisements while running the app, implement real time upload speed and change the look of the app which is similar in all other cases.

**5) What technologies, APIs etc will you be using to develop this solution? Provide links and explanations.**

We would be using-

1. Android Studio to design and develop our application – This comprises of the coding part which includes files such as – java and xml. Fragments will be used so that the reuse within the activities becomes easier.

Course content- Android overview and first Android app, to help understand android studio.

-Android User Interface notes, to help use fragments and various layouts.

1. Firebase- To design the database for the user information (login credentials) and the user data (photos).

Link address- <https://www.youtube.com/playlist?list=PLrnPJCHvNZuB_7nB5QD-4bNg6tpdEUImQ>

The above link consists of lectures regarding uploading and retrieving images from firebase.

1. Asynctask- To retrieve images of application designers in the “about us” section.

Link - <https://developer.android.com/reference/android/os/AsyncTask.html>