# ACL RISK ESTIMATOR Preliminary Usability Test

By R Praneeth Varma

Under Guidance of Dr Robert Pastel



#### **Team Members:-**

S.No	Name	Role
1	Praneeth Varma	Consultant
2	Aseem Upadhyay	Consultant
3	Ashmith Kolli	Consultant
4	Eric Widmann	App Developer
5	Bryce Williams	App Developer
6	Chetan Kumar Chaurasiya	App Developer
7	Eric Widmann	App Developer
8	Erik Skogfeldt	App Developer
9	Michael Wallace	App Developer
10	Nathan Zurcher	App Developer

#### ACL RISK ESTIMATOR

- In this mobile application, the primary stakeholders like athletes, coaches and parents often use this application for uploading videos of athletes performing a common knee injury risk screening task.
- Firstly, they have to sign in or create an account for uploading videos. The uploaded videos are stored in the database.
- These videos are then sent to scientists for view or analysis. Feedback is given to the user for future prediction.

## Test 1

• In this test the participants were made to create an account and login to their account.

We record time taken by each user to create and login to his account.

 We also record number of bugs identified by the participants as well as number of errors made by the participants.

 Finally we also record number of times participants seek help from developer.

## Test 2

• In this test the participants were made to upload videos.

We record the time taken by participants to upload video file.

• We also record number of bugs identified by the participants as well as number of errors made by the participants.

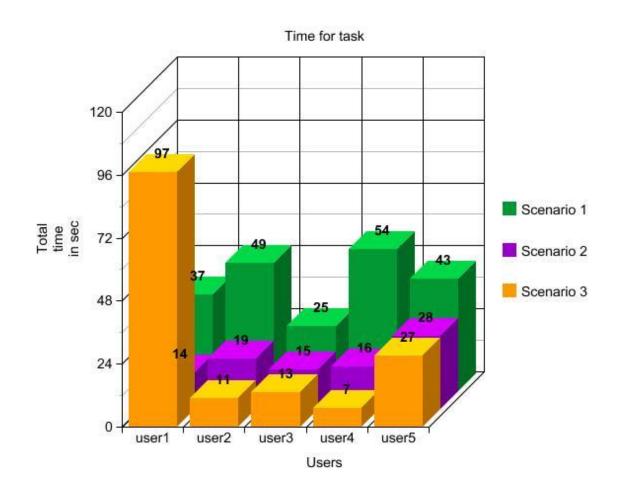
 Finally we also record number of times participants seek help from developer

## Test 3

• In this test the participants were made to browse videos by logging in to existing administrator account.

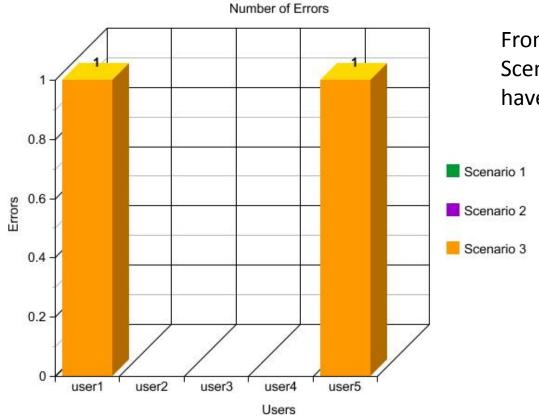
- We record the time taken by participants to browse video file.
- We also record number of bugs identified by the participants as well as number of errors made by the participants.
- Finally we also record number of times participants seek help from developer

Total time taken by the user to complete the given task



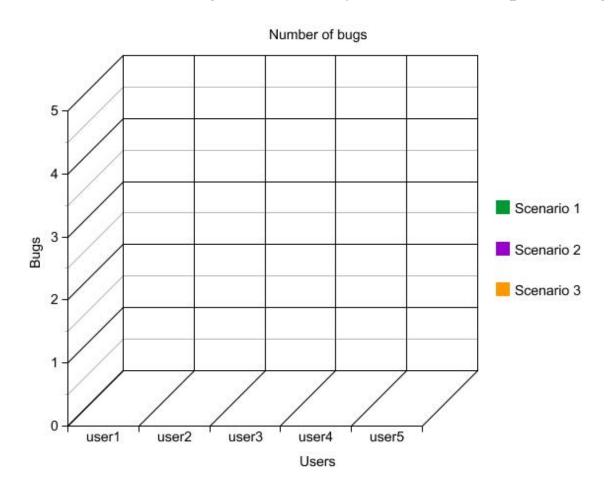
- Avg time taken by users in scenario 1 is 41.6 sec
- Avg time taken by users in scenario 2 is 18.4 sec
- Avg time taken by users in scenario 3 is 38.7 sec

Number of errors made by the user to complete the given task



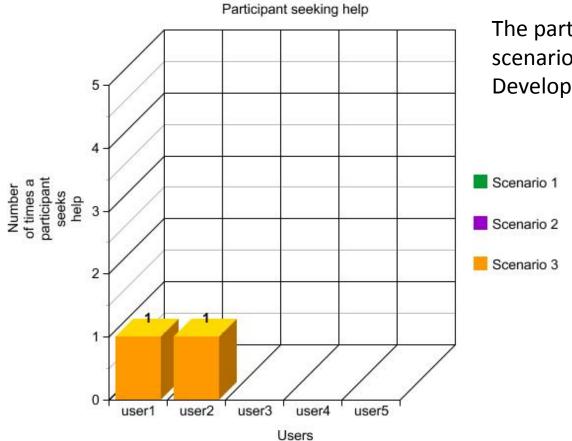
From the graph we see that all the users have performed Scenario 1 and 2 without any mistakes. In scenario 3, 2 users have made errors.

Number of bugs identified by the user to complete the given task



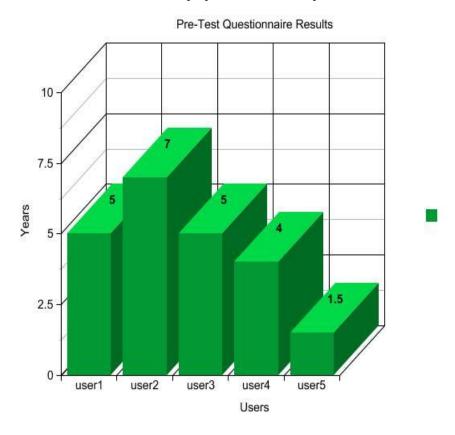
The participants didn't identify any bugs in all 3 scenarios.

Number of times a participant seeks help from the developer



The participants didn't seek help from the developer in scenario 1 and 2. In scenario 3, two users have taken help from the Developer.

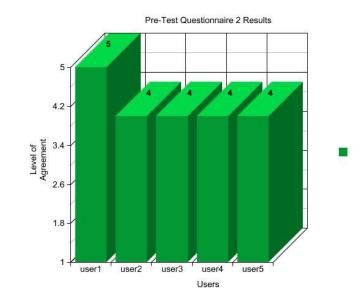
Question 1:- How many years have you used smartphones?



Q 2 Please indicate your level of agreement to the follow statement:

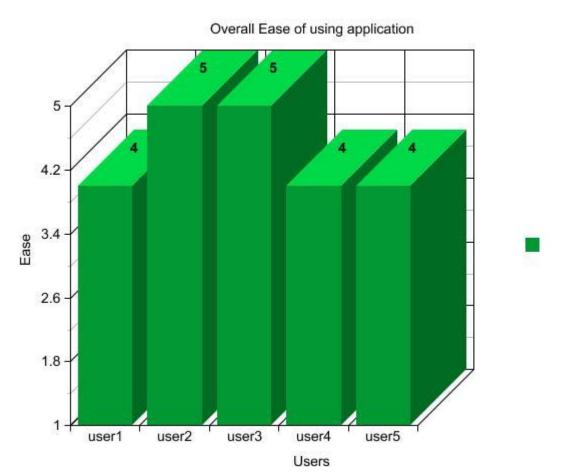
I am very interest in the testing of this application.

- 1. Strongly disagree
- 2. Disagree
- 3. Neutral
- 4. Agree
- 5. Strongly agree



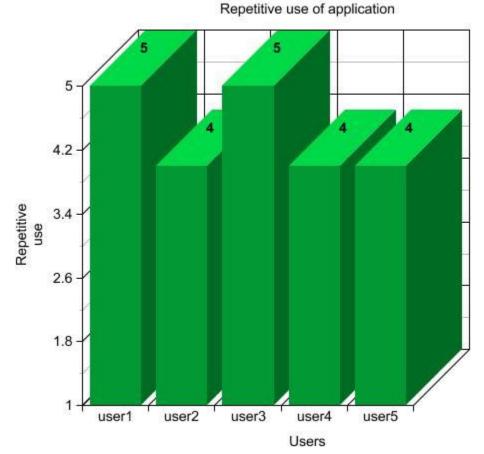
Q1 Please indicate your level of agreement to the follow statement: Overall, this application was easy to perform the task.

- 1. Strongly agree
- 2. Agree
- 3. Neutral
- 4. Disagree
- 5. Strongly disagree



 Please indicate your level of agreement to the follow statement: I would use this application again.

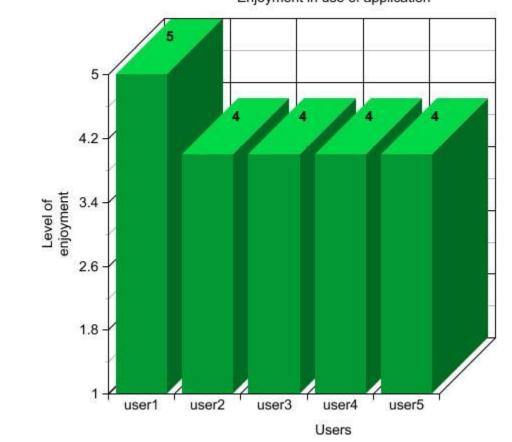
- Strongly disagree
- Disagree
- Neutral
- Agree
- Strongly agree



• Please indicate your level of agreement to the follow statement: I enjoy using this application.

Enjoyment in use of application

- Not at all
- Not very much
- Neutral
- A little bit
- Very much



# Bugs

## No bugs identified.

Bug Number	Bug Name	Bug Uniqueness	Bug Location	Bug Description

# Flaws in the system

No account verification during signup

There is no user profile in the application.

User cannot modify or delete his/her uploaded video



## Recommended changes in the system

Account verification can be implemented

We can maintain a user profile.

We can give a delete/modify video option to the user.

Change of background for the upload video module.