

CSCI 4176 & CSCI 5708
Mobile Computing



Project Update Form

Due: In Lab on Wednesday October 31st, 2018

NUMBER 5

1. Participation (Grey Columns Filled in by TA):

	Adjust	Name (Print)	Banner Number	OK?	Git Data	Comments
1.		Jigar Joshi	B00812722			
2.		Shivani Desai	B00799169			
3.		Bola Okesanjo	B00786268			
4.		Vivek Shah	B00799155			
5.		Ryan Stevens	B00695460			

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2. Progress Report

List completed work; identify partially completed work by %.

- Wire frames, click streams, and page design for the apps have been completed using *Axur RP* and have been added to the GitLab repo.
- API creation using Python has begun and different endpoints have been implemented. %
- The home page, search page, and add-media pages have been designed and populated with dummy data. The error pages are in progress and are yet to be finalized.
- The bonus functionalities of automatically identifying media title and the current media time have been implemented in the API. The corresponding app feature to use this functionality is being developed.

Individual Contributions

1. Jigar has helped setup the API and has designed the database for the user rating system and the application.
2. Ryan's main contribution has been to use the UI Mockup software *Axur RP* to create wireframes. Wireframe pages were mostly drafted by Ryan, and then refined during group meetings, with Ryan being responsible for making edits quickly. Using these designs, he has also creates a series of click-streams. Currently, Ryan is developing a prototype of the controller for the *BooYah!* rating sessions.
3. Both Vivek and Shivani have implemented some of the UI pages for the app. They have implemented the home, search, and add-media pages.
4. Bola has implemented API endpoints for the timer and the addition of user media. He and Jigar are currently implementing the endpoints for user rating.

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3. Identification of Problems

List any problems and status; e.g., solved, not solved.

1. Allowing user-added media

During a meeting in late October, we identified a problem: the timer for a particular piece of media content will be out of sync if we allow users to add different versions of the media.

If users add versions of a media entry that have different durations then the user ratings for any particular scene in the same media content will happen at different times. This would make the media ratings unreliable for other users of the application. One solution is that we ourselves add a single version of a media content that all users will rate. If a user is watching a different version with a different duration, that user would have to adjust the timer on the app to correspond with the scene times in their version.

However we want to give users the freedom to add their own media content for various reasons. In order to achieve this, while mitigating the aforementioned problem, we decided to allow users to add new media to the platform. Once the media is added, it becomes the authoritative duration for other user ratings. If, however, there is a problem with that media, other users can flag it and we can add a better version of the media ourselves.

2. Rating system for media

During the last group meeting, we identified a problem with the user context. Currently *Booyah!* has five ratings for any scene in a media. This system could be too cumbersome for users to use and might distract them from their primary activity of watching the media itself. We will investigate changing this to a simpler rating system that will not be as distracting for the user.

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4. Request for Changes in Functionality

Be specific in identifying what you can complete.

As per the professor's suggestion, we have removed some initial functionalities due to time constraints. Below is the modified list of base and expected functionality we expect to deliver at the end of this project, with additions bolded, and removed items crossed out. Item H from the "expected functionality" list was removed due to it not adding a lot of value to the product. Item G of the "expected" list was moved to the "bonus functionality" list due to its relatively low value and concerns that the team would be unable to implement it to good time.

Base Functionality

- A. Start, pause, and adjust time on a timer
- B. Create new ratings for media content
- C. Search existing media content entries
- D. View the profile of individual media content
- E. View graph of user's rating in media profile

Expected Functionality

- A. View graph of aggregate ratings in media profile
- B. Generate other graphs in a report of the media (ex. pie chart)
- C. Share graphs and ratings of select moments on social media
- D. Delete user ratings for different parts of a media
- E. Use voice commands to control timer
- F. View "Terms of Service" and "Privacy Policy"
- ~~G. Use Stickied device notification to see current time, control timer, and quickly open app~~
- ~~H. Recommend content to review via NFC connection~~

Bonus Functionality

- A. Flip UI layout to accommodate left or right-handed users
- B. Use sound recognition to identify time indexes in select media
- C. Use sound recognition to identify select media
- D. View graphs that show individual ratings from other users
- E. Sync pause events with user's computer via bluetooth
 - a. Communicate with laptop to send Space/left/right key signals
 - b. Detect when user presses Space/left/right and adjust timer accordingly
- F. Use Stickied device notification to see current time, control timer, and quickly open app**

Total: Out of 15

TA Signature: _____

Instructor Signature: _____