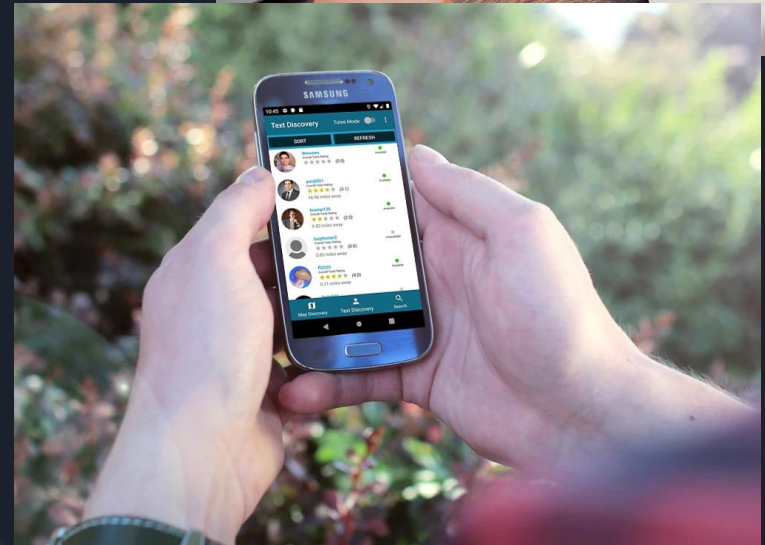
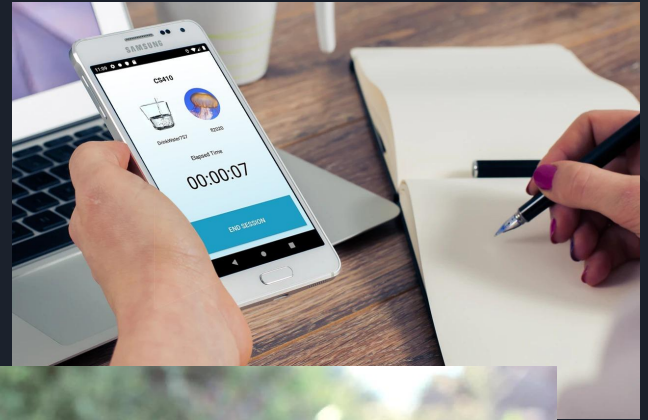


# Tutor Dash Prototype Presentation

Team Gold  
Old Dominion University  
Fall 2019  
03 December 2019



# Team Gold



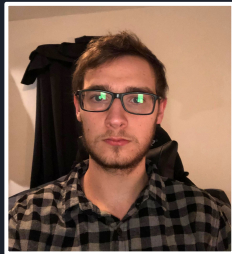
**Alex Wojtowicz**  
Team Lead/Webmaster  
DB/Algorithms Developer



**Brandon Campbell**  
Database Manager  
Back-End Developer



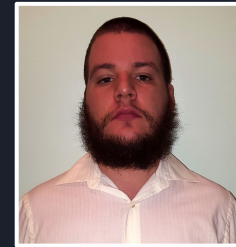
**John Hessefort**  
UI/UX Developer/Tester  
Domain Expert



**Duncan Holterhaus**  
Back-End Developer  
Lead Algorithms Developer



**Edwin Ordonez**  
UI/UX Tester  
UI/UX Developer



**Dwight Owings**  
UI/UX Tester  
Quality Assurance

# Main Features (Summarized)

- User accounts
- Transcript parsing to check for official transcripts from universities
- Locate tutors/tutees using various parameters
  - Distance algorithm to show only nearby users in Map Discovery
- Schedule appointments online or in-person, with added ability for video calls and messages
- Payment handling between tutor and tutee, with pay-rates adjusted by course demand and tutor experience/rating.
- In-app payments



# What's New From Our Last Presentation

- Implemented Braintree API for payments
- Implemented Pay-Rate algorithm
- Added video conferencing for online sessions via Vidyo.io, in place of Google Hangouts
- Added functionality in user calendar to go directly to a session upon selecting an item in the listing
- Bug fixes
  - Transcripts can now be uploaded from directories other than Downloads.
  - Profile pictures of other users should now display properly on Map Discovery.
  - Upon creating a new account, the application will crash due to issues with obtaining user coordinates. This has been fixed.





Tutor Dash Prototype

CS 411W Gold Free Public EO A BC D DO -1 Invite

### To Do (FEATURES)

- 136. Create a technique for determining/computing standard deviations in the cloud. Dec 2
- 401. (LOW PRIORITY) Display a terms of use agreement when users first sign in. Deny access if they don't accept. Keep displaying the agreement every time they log in until they accept. Dec 2
- 404. Make it so that sessions can time out (both when they are active and awaiting handshake). There needs to be a trigger that cancels a session (or ends an active session) after some allotted amount of time. Dec 2
- 407. (LOW PRIORITY) Add functionality to notifications so that when you click on them they take you to a logical place (not just the login screen) Dec 2
- 467. (LOW PRIORITY) Make locations update in the background (not just on the main discovery activity when the app is in the foreground and the screen is on). Dec 2
- 403. OPTIONAL: Give the tutor the ability to deny the session with a response (possibly a request for another time) Dec 2
- 468. (LOW PRIORITY) Add popup window that allows the user to book a session ASAP when they are scheduling a session.
- 469. (LOW PRIORITY) Add a reminder window that pops up and/or notifies both users when their session is supposed to end as long as they are both still in the session.

+ Add another card

### To Do (BUG FIXES)

- 1005. Save timer state so that it can be picked up at the right time when the active session activities are stopped. See comment for details... Dec 2

+ Add another card

### In Progress

- 035. Create member profile layout (editing section for current users) Dec 2
- 410. Create User Information Activity. (Hosts all basic user information and it is part of the profile). This needs to be reusable (editable for current user and readonly for other users) Dec 2
- 400. Setup Braintree accounts. Each user needs to have the ability to connect to a designated sandbox account Dec 2
- 1000. Investigate and fix crash that occurs when new users create accounts. If emails aren't being sent, then refer to task 1001. Dec 2
- 409. After Braintree accounts have been setup, implement ability for automatic transactions to take place given that a session was completed. Dec 2
- 1001. Investigate the reason as to why emails are not being sent (sometimes when users reset their account). Also, try to reset your password on existing accounts and see what happens. Did the emails send? Dec 2

+ Add another card

### Ready for Testing

- 1003. Fix crash relating to transcript uploads on transcripts that either aren't valid or in another directory other than /Downloads. [ This will require additional logic to fix, and you can find it in FileUtils.getDownloadedFileFromUri() ] Dec 2

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### Being Tested

- 138. Create handshake agreement activity (screen that shows when two users are about to enter a scheduled session) Dec 2

+ Add another card

### Passed Tests/Done

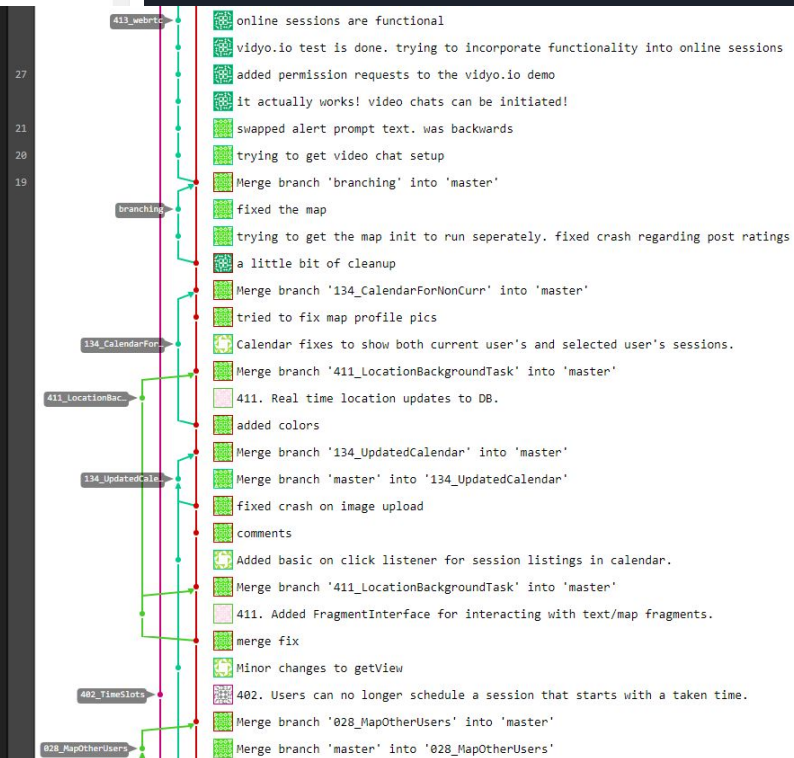
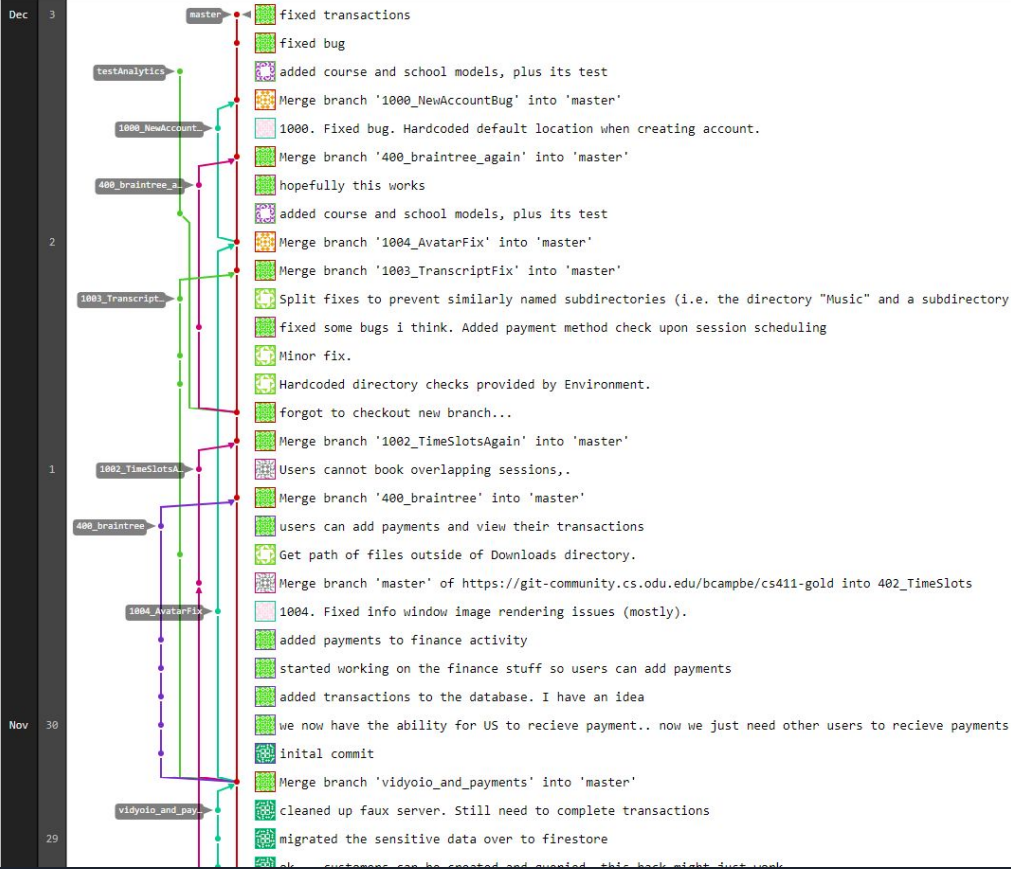
- 1002. Disallow sessions to be booked when times contained within the time frame of the request are unavailable. See comment for details... Dec 2

+ Add another card

### Merged to Master

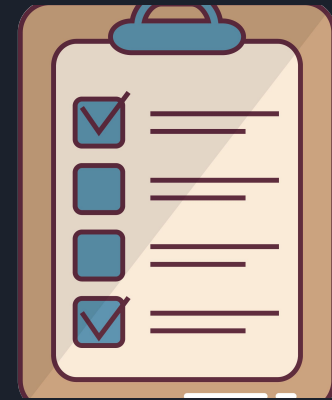
- 002. Initial git commit for project skeleton (with dependency files) BC
- 143. Allow tutees to change their profile image (requires storage permissions and firebase storage) Dec 1
- 1004. Avatars that render in the map view windows (when you click on the markers) don't render. Dec 2
- 034. Create member profile layout (read-only viewing part) (this is similar to MainDiscoveryActivity) Nov 3
- 035. Bind user information to member profile layout. Dec 2
- 413. Implement video sessions using WebRTC A
- 006. Add ability to upload documents in UploadTranscriptActivity Sep 17
- 140. Create rating activity. Screen that displays after a session concludes. Nov 5
- 141. Create session activity. Include option to end session. Nov 5
- 402. When scheduling a session, implement the ability for time slots that conflict with that tutor's schedule to be displayed as "-" instead of the time Dec 2
- 408. Implement ability for users to receive notifications from their DMs. They won't receive these notifications if they are currently viewing their messenger (that particular conversation).

+ Add another card



# What Was Omitted/Unfinished

- Comprehensive payment algorithm
- Direct tutor payments (not possible)
- Rescheduling
- Reviews
- Caching (Developed but not implemented)







# Challenges We Have Faced Over the Semester

- **Regression (Previously implemented features are breaking)**
- Non-reproducible Intermittent crashes
- Testing (need very specific setups)
- Google Map
- Braintree Payments
- Video conferencing
- Data synchronization
- Setting up background tasks
- Time restraints







Questions?

