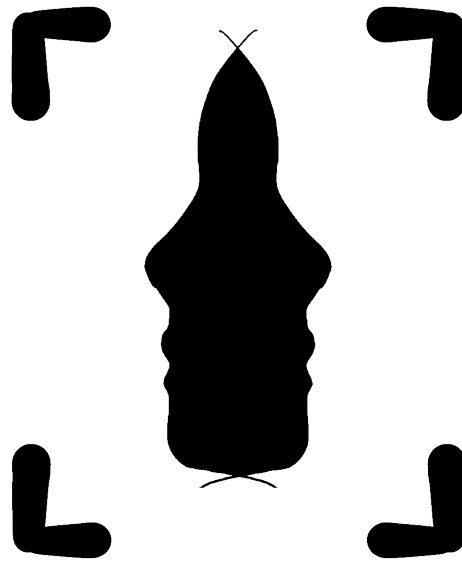# Work Breakdown Structure

Mobile Apps to Reduce Cross-Race Recognition Deficit

University of Colorado **Boulder**

Department of Psychology and Neuroscience

1. Introduction
   1.1. Member introductions
   1.2. Organize team meetings
   1.3. Set administrative roles
   1.4. Create a team logo
2. Administrative
   2.1. Contact last years team
   2.2. Download required IDE`s
   2.3. Request previous documentation
   2.4. Request code/database access
   2.5. Set up a new GitHub account
       2.5.1. Create folders to organize the repository
       2.5.2. Grant access to all interested parties
       2.5.3. Create a new readme
       2.5.4. Keep the repository up to date
   2.6. Create and submit a status report every week
   2.7. Submit peer evaluations
3. Meetings
   3.1. Contact sponsor to introduce ourselves
   3.2. Contact TA to introduce ourselves
   3.3. Organize Team meetings every week
       3.3.1. Take and record attendance
   3.4. Organize Sponsor meetings every two weeks
       3.4.1. Take and record attendance
   3.5. Organize TA meetings every two weeks
       3.5.1. Take and record attendance
4. Familiarize with the existing code base
   4.1. Download previous codebase
   4.2. Update our work environments to accept the previous codebase
   4.3. Examine and understand the previous teams work
       4.3.1. Request previous documentation
       4.3.2. Request code/database access
   4.4. Test the previous teams work
   4.5. Get the project working
       4.5.1. Create accounts on the platform
       4.5.2. Get the iOS app working
       4.5.3. Get the Android app working
5. Scope
   5.1. Create Preliminary Scope Statement
   5.2. Develop Project Charter
   5.3. Deliverable: Submit Project Charter
   5.4. Project Sponsor Review Project Charter
       5.4.1. Modify Project Charter if needed
       5.4.2. Resubmit project charter for review if needed

5.5. Project Charter Signed/Approved
6. Project Planning
   6.1. Determine Project Roles
   6.2. Create a Project Plan
      6.2.1. Determine Project development (Agile/Scrum)
      6.2.2. Develop Project Plan
      6.2.3. Submit a Project Plan
      6.2.4. Milestone: Project Plan Approved
   6.3. Create Work Breakdown Structure
      6.3.1. Develop a work breakdown structure
      6.3.2. Review work breakdown structure
      6.3.3. Submit work breakdown structure
   6.4. Create Requirements Document
      6.4.1. Develop Requirements Document
      6.4.2. Review Requirements Document
      6.4.3. Submit Requirements Document
7. Extending Racial Group & Gender Sets
   7.1. Acquire new face sets/groups
   7.2. Data processing/database design
   7.3. Risk management
8. Forced Choice training
   8.1. Enable/ debug force choice training
   8.2. Update last years work
9. Add new face sets to the system
   9.1. Design difficulty algorithm
   9.2. Create and add datasets
   9.3. Design and implement performance evaluation algorithm
   9.4. Design and implement a scoring system
   9.5. Design and implement a system to allow the participant to chose face set
10. Back end
    10.1. Understand previous semesters database
    10.2. Update database
    10.3. Make sure the database is robust
    10.4. Make or manage API`s
    10.5. Make sure the front end team is getting the information they need
11. Front end
    11.1. Redesign a new UI
    11.2. Submit the new UI for approval
    11.3. Implement the new design
    11.4. Update the website with the new UI
    11.5. Update the mobile version with the new UI
    11.6. Fix previous teams responsiveness issues
12. Testing
    12.1. test iOS app

12.2.   test android app
12.3.   Test the new web app
12.4.   Stress test the frontend
12.5.   Stress test the backend
12.6.   Test the database
13.   Publishing
13.1.   Publish a new iOS app
13.2.   Publish a new android app
13.3.   Publish a new web app
13.4.   Create documentation for the iOS app
13.5.   Create documentation for the android app
13.6.   Create documentation for the web app
13.7.   Update Github repository readme
14.   Presenting
14.1.   Semester 1 Presentation
14.1.1.   Create the first-semester presentation
14.1.2.   Rehearse presentation
14.1.3.   Record the presentation
14.1.4.   Submit the presentation
14.2.   Semester 2 Presentation
14.2.1.   Create the second-semester presentation
14.2.2.   Rehearse presentation
14.2.3.   Record the presentation
14.2.4.   Submit the presentation

Task Assignments:
- All Team Members:
  - Tasks 1-6
  - Tasks 12-14
- Front End: Siyu Yao, Madison Rivas, Alvaro Santillan
  - Task 8
  - Task 9
  - Task 11
- Back End: Liyang Ru, Guangshi Xu
  - Task 7
  - Task 9
  - Task 10