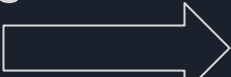


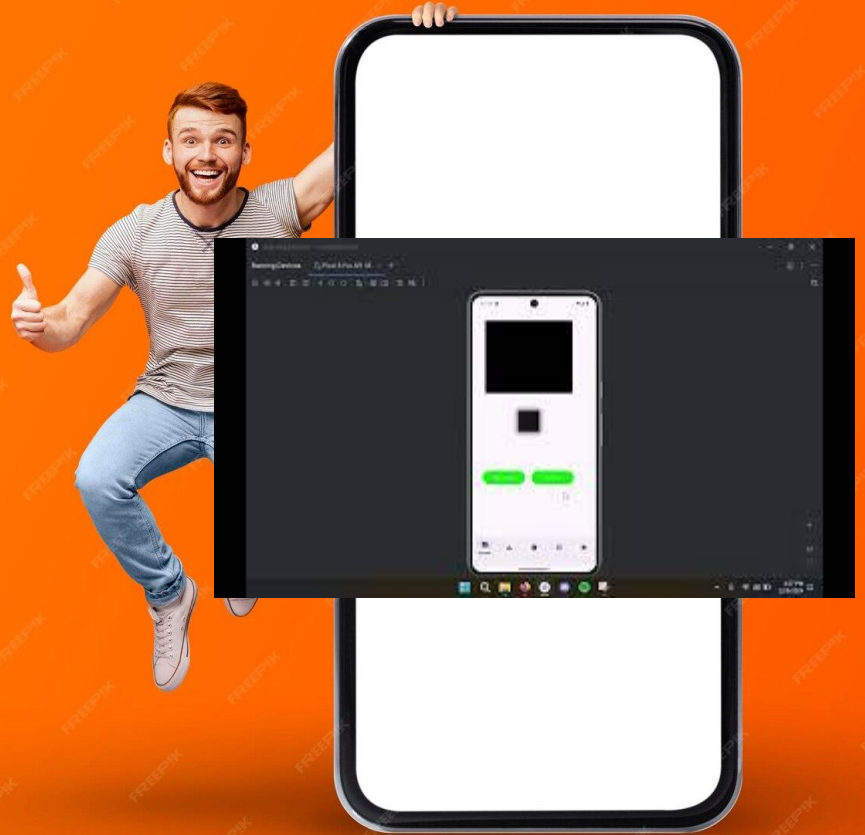


# VisionLingo Final Demo

AI - Upgraded Logo (We got a Holiday Bonus)

Group 3: AaJanae, Christian, Jason

**What Our App Can Do  
and why it deserves a  
Medal :** 



# Challenges



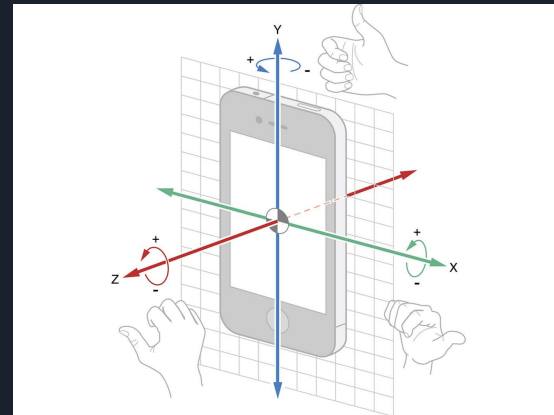
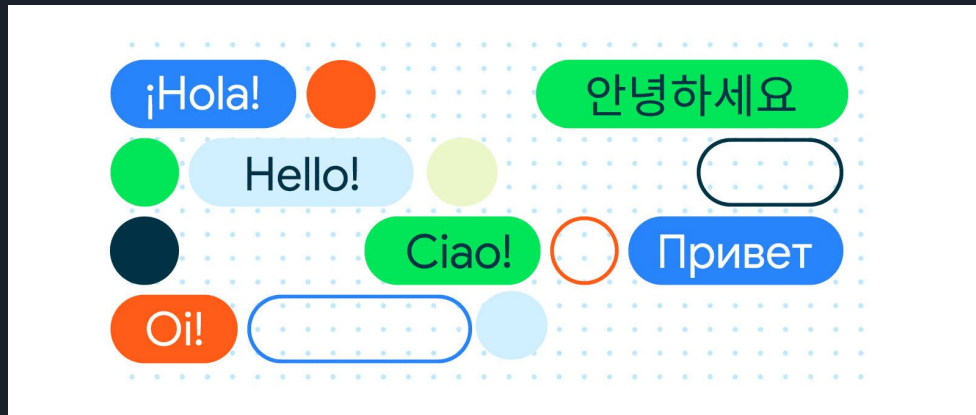
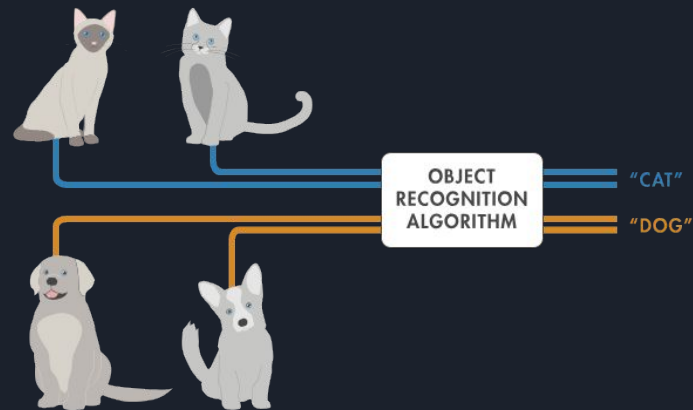
- Translation Tool Kit
- Storing a vocab list of words and Images in the database and having to convert them
- Making sure when the user logs in all of their information is displayed
- Dealing with fragments and the BusinessLogic class and BusinessLogicUIState
- The Great Merge
- Threading everything together

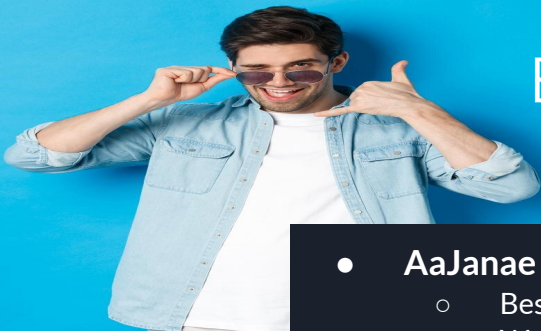


- Going from Activities to Fragments mid-late project worked better with sending images like we needed
  - This included creating an entirely new activity Transfer Activity and the Business Logic/Business Logic UI State classes
- Changing the color spinner to update the button color rather than the entire app color
- Adding an entirely new image database

# New Technology

- Object recognition ML kit
- Navigation bar
- Accelerometer (i.e. phone shaking)
- Translation ML kit





# Best Part of App Building

- **AaJanae**
  - Best: Camera and trying the new technology from other places
  - Worst: Trying to find actual new technology needed for our code without having to train + Not being able to download our app onto my phone
- **Christian**
  - Best: Setting up the translator and understanding threading (when to thread and when to run on the ui thread)
  - Worst: Using threads. I like what threads do but I hate using them.
- **Jason**
  - Best: Designing the app and the collaborative aspect of working in a team project
  - Worst: Debugging/making sure everything works and trying to read through Android documentation

# Worst Part of App Building



# What AaJanae Did for This App

- Use of Object recognition ML kit within the camera fragment
- Implementation of Business Logic and new Transfer Activity needed for fragments in the project
- User login and new user from home screen
- Button Color Changing from User Preferences Spinner
- Navigation bar
- Accelerometer (i.e. phone shaking)



# What Christian Did for This App

- Implementation of Business Logic and new Transfer Activity needed for fragments in the project
- Button Color Changing using BusinessLogicUIState
- Accessing our Word Database
- Word Translation with ML Tool Kit
- Saving (Info Fragment) and Accessing(Quiz Fragment) Vocab
- Quiz Fragment - Displaying a random vocab from the users Vocab
- Info Fragment - Displaying Word Info and Translating the Word, Saving the word to the Users Vocab List





# What Jason Did for This App

- Database
  - DB classes, DAO classes, type converters, loading the DB with a database reader class, storing User and updating User object in DB, storing images in the ImageDB
- App screen UI elements
- List fragment with RecyclerView
- “Speak word” button in info fragment
- Applying coding standards (e.g. variable names, formatting, method comments, etc.)



# Thank You For Listening

## Questions?



(Tips are appreciated)