**Project Brainstorming**

**Prime Meridians**

**Idea A**

* The Butler
  + A Discord bot with multiple functions
    - Trivia
    - GUI Dashboard

Ability to recommend specific servers based on topics of interest

-Moderation things

-Recommends stocks for you

-Recipes

-What do I eat for dinner??

-Ask Jeeves questions

-Default answer will be to recommend ice cream. Will be addicted to ice cream.

**IDEA B**

-Finance website

-A robot that buys stocks for you….. Via a website

-Career advice based on the career quiz robot (on WCC’s website)

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**IDEA C**

-A raspberry pi that makes raspberry pis

-app to match rescue pets with people

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Features

-Trivia - Sql

-Channel moderation - node.js or javascript, or java

-Tier moderation/leadership system - javasomething

-Reports the weather - javascript

-Jokes - javascript/SQL

-Personality: icon/name/phrases

-RSS reader (for updates/etc) -

-User interface - GUI/talking - (see below)

-Man pages for the bot - php/html/css / javascript

-Creative commons license

-Emoji piracy

-Music streaming -- Super Involved

-emoji roles

-secretly mining bitcoin on your computer -

-game/currency system

-Fire/rehire your butler - javascript / SQL

**priority**

-User interface - GUI/talking - (see below)

-Man pages for the bot - php/html/css / javascript

-Music streaming -- Super Involved --- RESEARCH STAGE ONLY

-Channel moderation - node.js or javascript, or java

-update notifications of a server

-print audit log into a command

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-Tier moderation/leadership system - javasomething

-Trivia - needs more fleshing out as a concept

-how?

-currency?

-timer

-

-Personality /

-Cat pictures - javascript

**HOMEWORK ASSIGNMENTS FOR US - DUE 2/15**

Figure out how to put the bot on a server and make a repo for it - Latitude

-Doc

-README

-Start the dashboard research on latitudebrown.com

-Man pages

-Work on our Discord server

-Read the community guidelines

**Lat**: *Music streaming -- Super Involved --- RESEARCH STAGE ONLY*

* Auto mute all participants in Discord voice chat
  + How to do this?
    - 02-14-2021: Here’s a Python bot for study: <https://github.com/zahid47/MuteAll>
* Steps
  + Source website: YouTube, SoundCloud…
  + Pull down MP3: Convert via an external website?
  + Load MP3 to the server
  + Play MP3
    - 02-14-2021: In JavaScript, there’s a library called ‘ytdl-core’ (ytdl = YouTube DownLoader) that does much of this legwork already: <https://gabrieltanner.org/blog/dicord-music-bot>
  + Once played, get rid of the file
    - 02-14-2021: See example source code here: <https://gabrieltanner.org/blog/dicord-music-bot>
      * This allows users to add the songs they want to hear. We’ll need to find a way for the bot to get music on its own.
* Different voice channels for different genres of music?
  + 02-14-2021: Bot cannot be in multiple voice channels at the same time.
    - Multiple copies of the bot? <https://groovy.zendesk.com/hc/en-us/articles/360031392311-Why-are-there-multiple-Groovies-#:~:text=One%20thing%20Groovy%20can't,and%20very%20unlikely%20to%20change>

**Dominic**: *Cat pictures -* ***COMPLETED***

* Due April 5th
* Text channel in Discord
* Steps
  + User sends command in channel
  + Bot send query to search engine
    - Build a custom Google URL?
    - Use weeb.sh?
    - 03-01-2021: CatBot - https://github.com/AdenForshaw/theDogAPI-discord-bot
  + Image link is return to Botler
  + Botler posts link in text channel
    - 02-14-2021: This might be helpful to study: <https://stackoverflow.com/questions/64072558/i-cannot-get-my-new-bot-imagesearch-to-work-and-am-seeking-some-assistance>
  + Discord automatically generates preview image from a link
* 04-02-2021: TestCatBot successfully retrieves random cat pics; completed

**Dominic**: *Server Setup -* ***COMPLETED***

* How to make different languages work together
* Use import statements
* Lat will make credentials for Ubuntu shell
  + Need IP address, un, pw (try <https://www.officialpusheen.com/> instead of IP)
    - 03-07-2021: Completed
  + Need MySQL un/pw
    - 03-07-2021: Completed
* 03-15-2021: Test this week to confirm different languages can talk to each other
  + Javascript, Java, MySQL, PHP
  + JDA - <https://github.com/DV8FromTheWorld/JDA>
  + discord.js - <https://github.com/discordjs/discord.js>
* readme.txt notes: **PROVIDE TO LAT**
  + Explain workflow: Install all necessary software on server, use Tomcat manager app to deploy war file

**Dominic**: *Website GUI*

* Admin sends command in chat; bot will DM admin with link to GUI
* Draft due March 15th, final version due March 29th
* Put Java on Linux box
  + 03-07-2021: Java is already installed in Ubuntu; completed
* Use flowchart to build GUI
  + 03-07-2021
    - Connected VSCode to server; test file uploaded successfully
    - Having trouble determining the correct URL to server files… I got stuck :(
  + 03-08-2021
    - Downloaded Apache2 to Ubuntu
    - Created var/www/html directory and placed files there
    - Test sites now working :)
    - JSPs still not working
    - Installed Tomcat (need to configure Tomcat)
  + 03-14-2021
    - Having difficulty configuring Tomcat; may work on this later
    - PHP installed on server; test files working
    - GUI 1.0 completed; link shared with team on Discord
  + 03-28-2021
    - GUI 2.0 completed; link shared with team on Discord
* Add git to Ubuntu - use this to pull down repo with Botler code
  + 03-28-2021: Git is already enabled on the server; completed
* Build JS Bot command to display GUI link to only mods (perhaps DM?)

**Dominic**: *Flavor Text -* ***COMPLETED***

* Draft due March 29th
* SQL Script
* Text Types:
  + Errors
  + Confirmations
* Hardcoded text for now
  + 03-14-2021
    - Started SQL script; 5 errors and 5 confirmations included
    - Created database called ‘theBotler’ in MySQL; can use this for all scripts and tables we make
    - Need to find more flavor text
  + 03-28-2021
    - All flavor text populated
    - SQL script created and tested; it’s working properly
    - Completed
* readme.txt notes: **PROVIDE TO LAT**
  + Explain workflow: Log into server, navigate to directory where script sits, log into MySQL, run command, run test commands

**Dominic**: *Misc Tasks*

* Completed - Add footer.html to GUI 2.0
* ~~Fix Kimmi’s MySQL profile~~
* Completed - Upload GUI files and cat.js
* Completed - Figure out how bot can run on server forever (Linux background job)
  + PM2 is a process manager, which appears to run independent of any shell sessions: https://www.writebots.com/discord-bot-hosting/
* Completed - Write PHP file that reads settings in / writes settings to JSON file
* Completed - DevCat table and HTML/PHP
* Completed - Delete currency and timer checkboxes
* Completed - Delete politeness level for now
* Completed - Fix Unit Testing HW
* Completed - Make Use Case Diagram
* Completed - Master UCD
* Completed - Implement settings.json
  + <http://137.220.60.70/GUI.php>
  + Music Streaming (**DONE**)
  + Cat Pics (**DONE**)
  + Trivia (**DONE**)
  + Auto Ban (**DONE**)
* Completed - Team Member Participation Evaluation
* Completed - Group Work Self Reflection
* Completed - Draft PowerPoint (or edit presentation video)
* Completed - Comment out How To Use The Botler on GUI
* Completed - SettingsAndBannedWordsHandler.php; the GUI will now respond to the banned words functions available on the dashboard

Trivia - needs more fleshing out as a concept -- Kimmi

-how?

-currency?

-timer

Channel moderation - node.js or javascript, or java

-Offenses -

banned words,

Spam, Raiders,warning/kicking etc, links/questionable text -

-Scan each new message

-determine any offending content,

-delete offending content

-warn users with specific message

Kelly

-Defenses - Moderation tiers, audit-logs (JSON), autoroles, emoji roles - Rene

Machine learning algorithms to learn when your cat types on your keyboard