



# BU Bot

## Progress Report 1

27.2.2022

### TEAM MEMBERS

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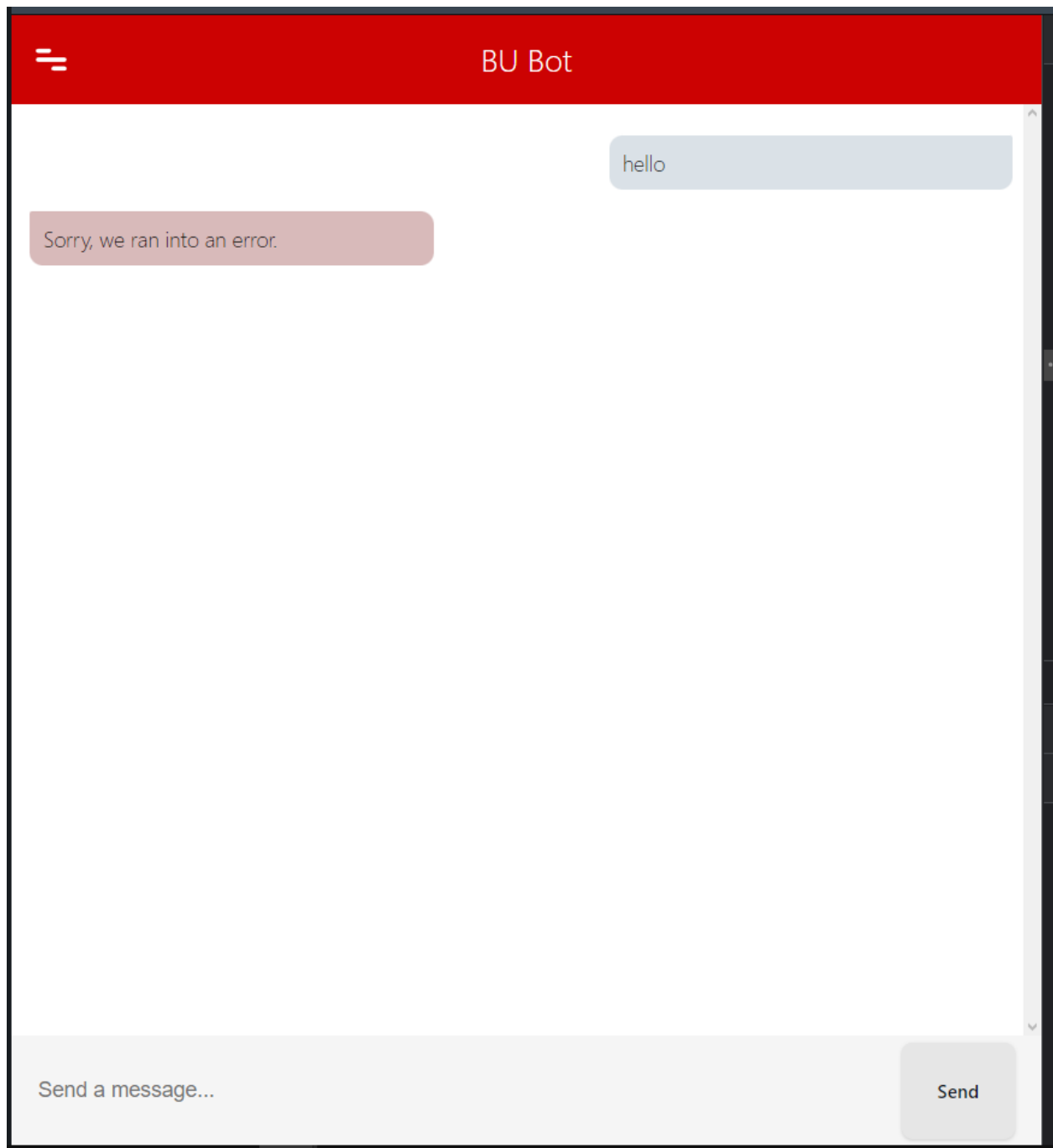
## 2- Features we included in the previous sprints.

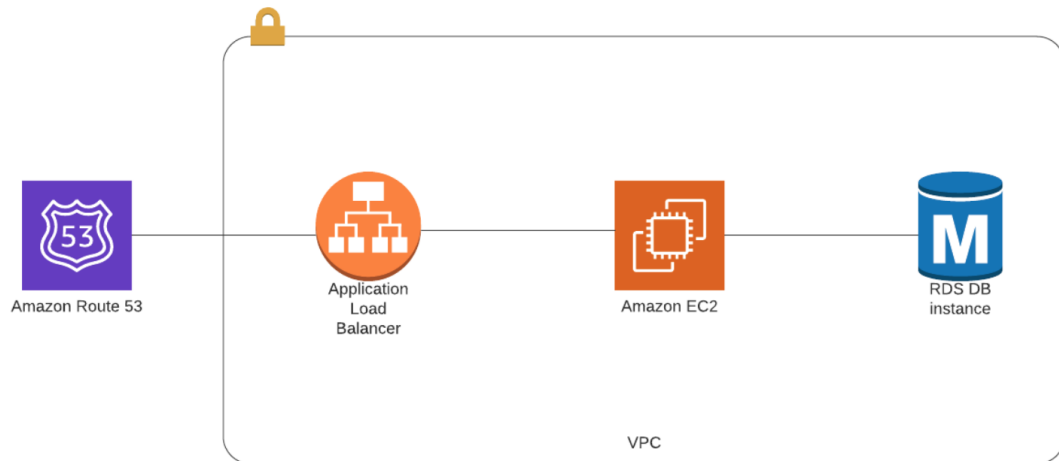
- Sprint 1: Setup Botpress on Amazon AWS, created a database, and start data collection.
  - Got the Botpress AI setup on an Amazon AWS instance, which included adding SSL for security.
  - Created a DB on AWS to contain course information.
  - Started collecting course information from Brock's course information pages.
- Sprint 2: Setup Botpress flows, actions, and custom database requests.
  - Trained NLP to determine what the user is asking.
  - Created database requests for specific actions.
  - Couldn't complete all the relevant questions.
  - Database requires additional information for the chatbot to perform correctly.

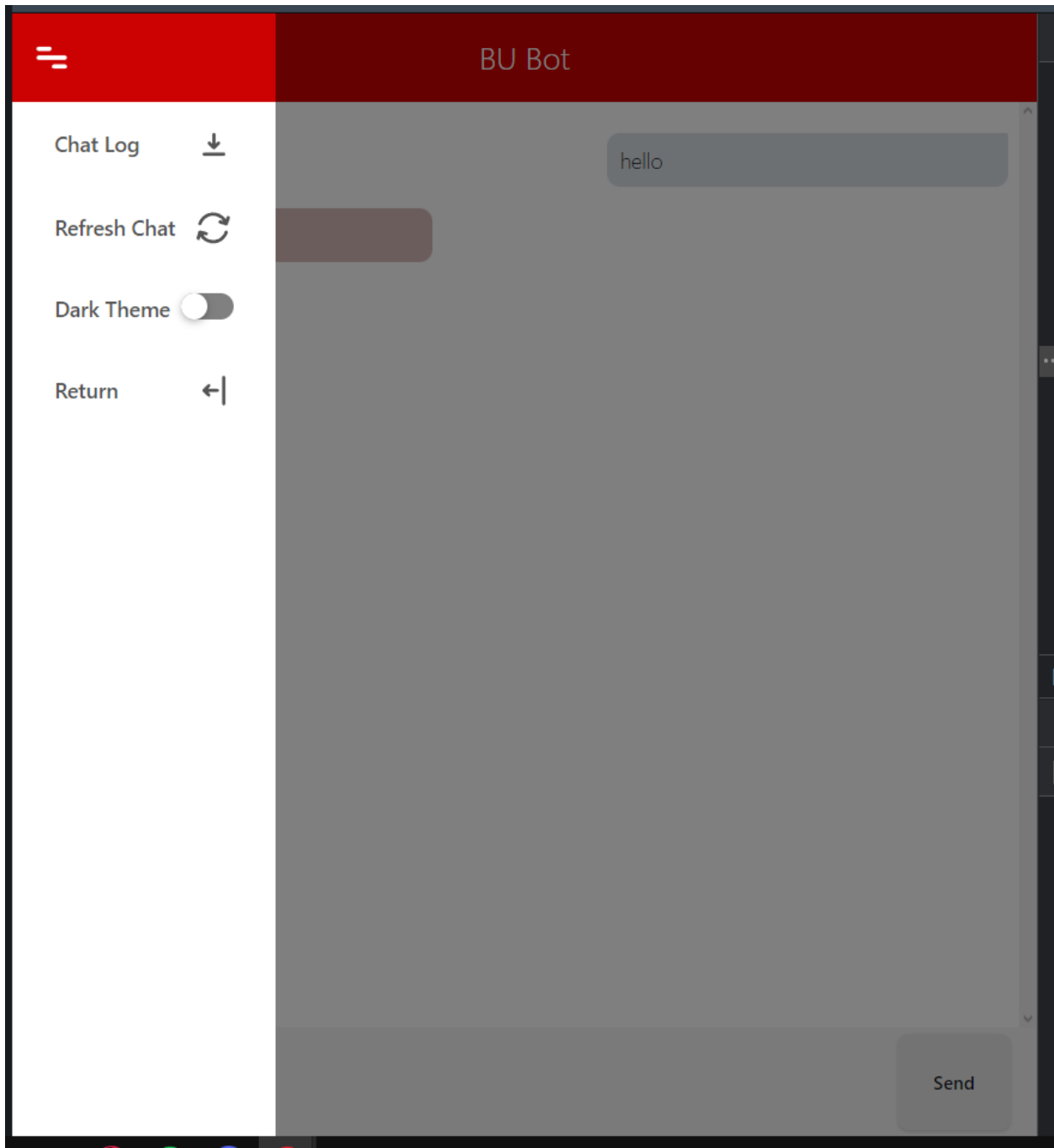
## 3- Features to be implemented in future sprints.

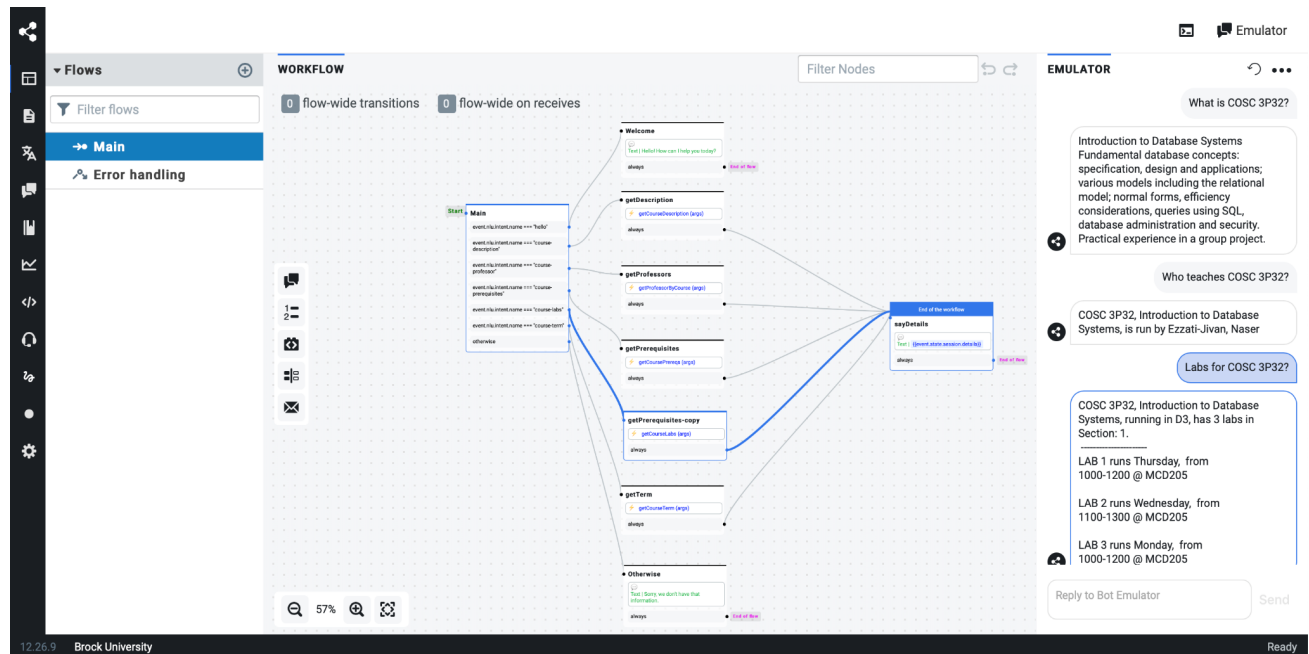
- Connect front-end and backend.
- Polish existing systems.
  - Add additional questions.
  - Improve NLP outcomes.
- Automatic Extraction System
  - Improve data collection systems to allow automatic requests for new data periodically such as a new calendar year.
- Finalize how to host data collection
- Finalize Front End hosting

#### 4- Frontend System and Backend CMS.










## 5- Issues we encountered.

- Brock website timing out when trying to automate data collection.
- NGINX not integrating well with SSH on a docker container
- Security groups not working well with each other

## 6- Group Member Contributions.

Mike Tchoupiak - Head Chatbot Development Lead. Extracted data from Brock University website and created a courses table with extracted information. Assisted with AWS setup. This includes SSL, Load Balancers, EC2 Instances, and various network protocols to secure the virtual cloud. Assisted with the setup of Botpress. Created database requests and trained the NLP with various questions that a user could ask. These included getting the course description, labs, prerequisites, course term, and professors.

Aamir Dhanani - Head of AWS Architecture. Setup and devised infrastructure planning within AWS Systems. Launched and Deployed EC2 instances, Docker Containers (Botpress), Realtime Postgres Databases (RDS), Route 53, Certificate Manager, Load Balancers, and Security Groups. Assisted with Domain setup and Botpress Chatbot.



Matteo Caglioti - Head of Frontend Development. Designed and created the React application. Implemented the functionality of the documented required interface in the outlined guidelines. In charge of eventually implementing the communication between the user and the Botpress Chatbot.

Alex Freer - Assisted in launching and deploying EC2 instances, Docker Containers (Botpress), Realtime Postgres Databases (RDS), Route 53, Certificate Manager, Load Balancers, and Security Groups. Assisted with Domain setup and Botpress Chatbot.

Diego Vergara - Assisted in designing and creating the React application. Also assisted in Implementing the required functionality. Will be assisting in eventually implementing the communication between the user and the Botpress Chatbot.