



# BU Bot

## Progress Report 2

28.3.2022

### TEAM MEMBERS

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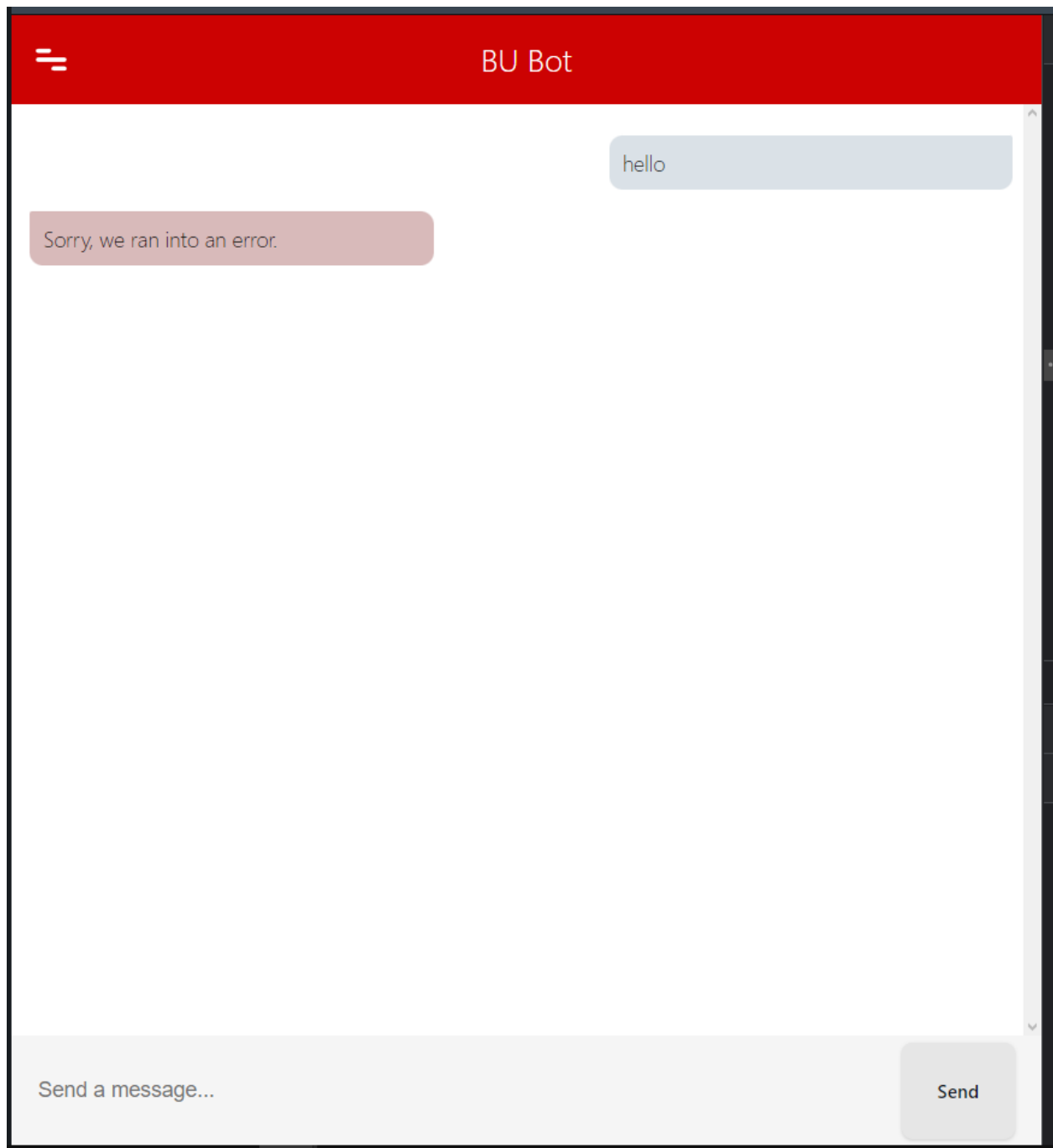
## 2- Features we included in the previous sprints.

- Sprint 3: Worked on data collection from brock website
  - Scraped Brock university website to gather information and store it on the AWS server
- Sprint 4: Started creating botpress chat bot within the botpress developer stack
  - Created queries that fetched relevant data from SQL tables
  - Trained the chatbot with different question types to access correct data
- Sprint 5: Integrated the backend of the chatbot with the frontend
  - Worked towards merging different versions of the bot to achieve one functional unit
  - Tested the chatbot by asking different questions regarding courses

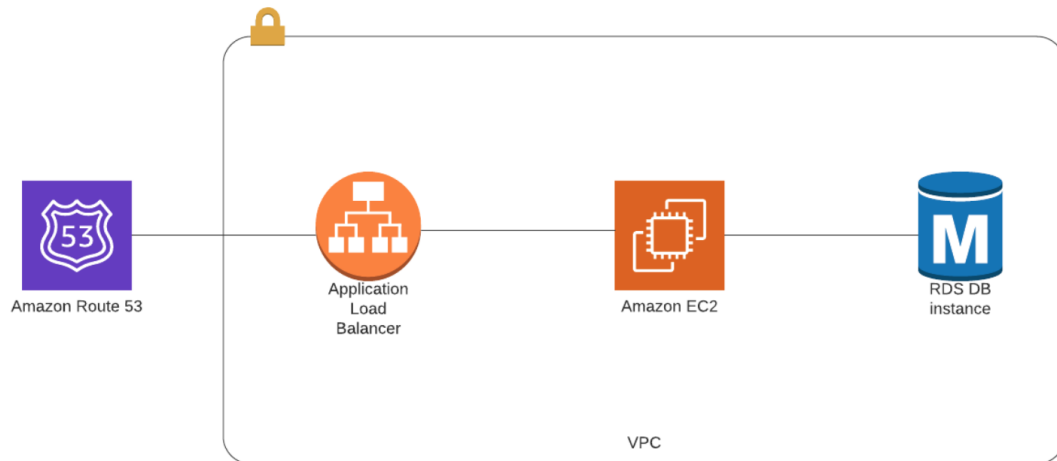
## 3- Features to be implemented in future sprints.

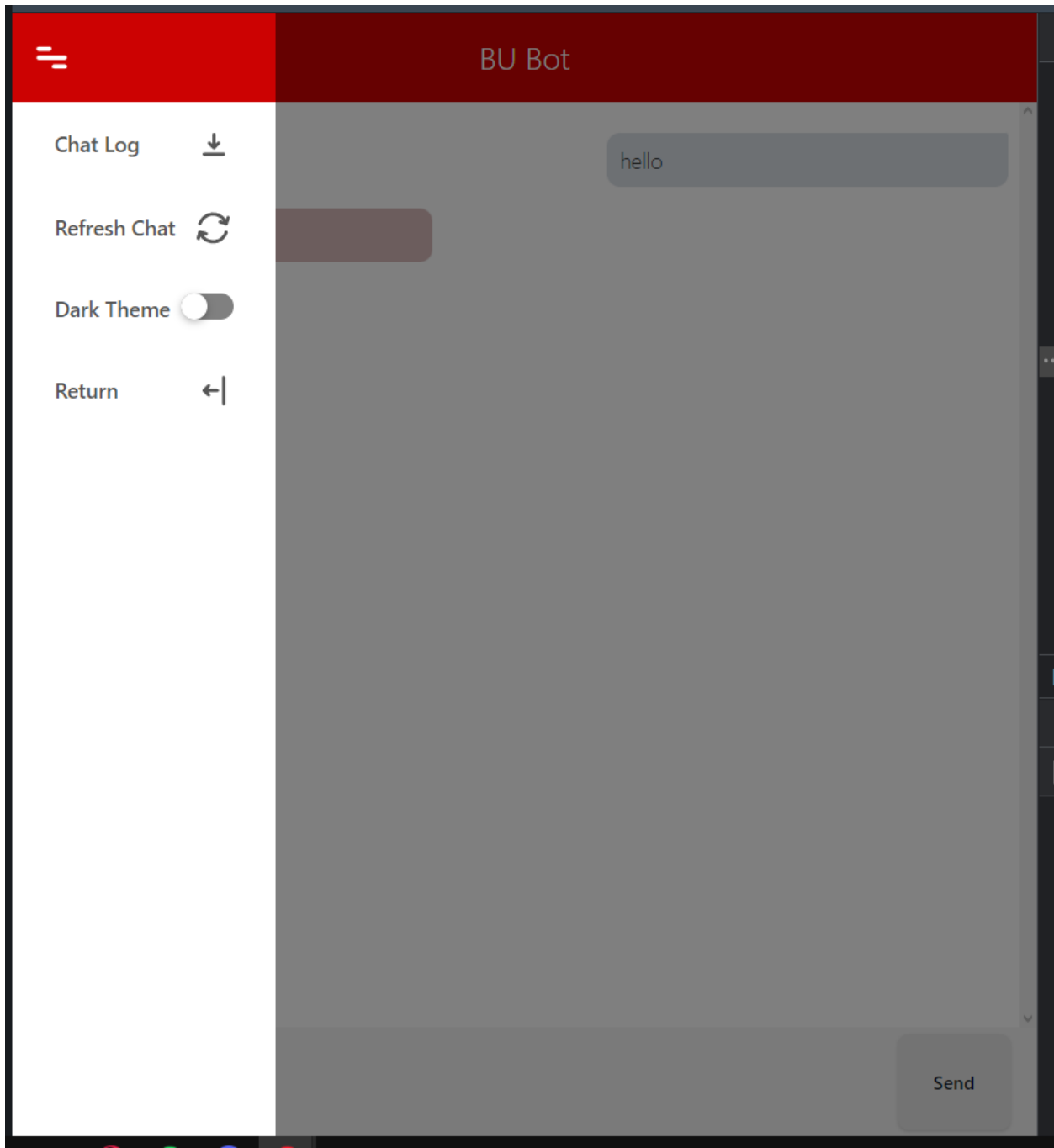
- Polish existing systems.
  - Add additional questions.
  - Improve NLP outcomes.
- Optimize Automatic Extraction System setup
  - Improve data collection systems to allow automatic requests for new data periodically such as a new calendar year

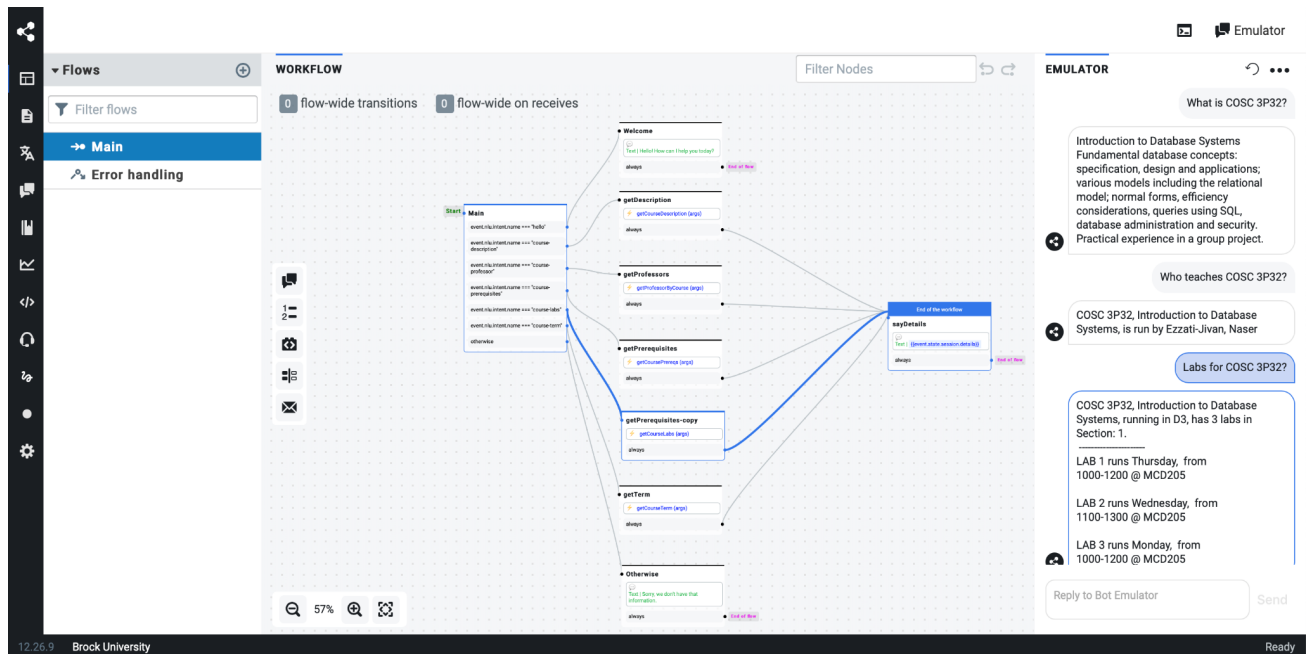
#### 4- Frontend System and Backend CMS.











## 5- Issues we encountered.


- Botpress bot not functioning appropriately when combining everyone's work together.

## 6- Group Member Contributions.

Mike Tchoupiak - Optimized chatbot NLU. Chatbot is now better able to understand whether users are asking course or lab questions, and other relevant information. Created additional SQL queries to search the databases for details based on the questions asked.

Aamir Dhanani - Curated and compiled multiple versions of chat bots to end up with one complete system. Also optimized AWS and Docker containers. Created queries for fetching data.

Matteo Caglioti - Head of Frontend Development. Created and implemented menu features such as dark theme, downloading chat logs and refreshing the chatbot. Proper chatbot integration and error handling was developed to allow for seamless communication between a user and then chatbot. Quality of life features such as previous messages with arrows keys and persistent messages on refresh using a client's local storage were also implemented.



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.