# **PROJECT MILESTONE 1 REPORT**

| PROJECT NAME    | ChatBot Flight Booking System   | DATE OF STATUS ENTRY | October 29, 2023                     |
|-----------------|---|----------------------|--------------------------------------|
| PROJECT CODE    | BDM3035 T3F23 CFBS  | PERIOD COVERED       | October 16, 2023 to October 29, 2023 |
| PROJECT MANAGER | Auradee Castro  | DATE OF COMPLETION   | December 15, 2023                    |
| MEMBERS         | Auradee Castro (866821), Bhumika Babu (867081), Miraj Sinya (863371), Olivia Deguit (878491), Roger Mais (863147) |                      |                                      |

## PROJECT STATUS

| PROJECT<br>STATUS | ON TRACK  | SUMMARY | Achieved seamless AWS and ChatBot integration. ChatBot feature development in progress. Relevant data sets acquired and imported for ML model building; proceeding with exploratory data analysis with no impediments. |
|-------------------|---|---------|--|
|                   | Completed initial setup for AWS and the chatbot application, establishing a successful connection                   |         |  |
| TASKS             | Finalized the prototypes for chatbot application features   |         |  |
| IASKS             | Acquired necessary datasets for building models for sentiment analysis and passport reader                          |         |  |
|                   | Started working on the user interface and feature development for the chatbot, as well as the AWS streaming process |         |  |

## PROJECT COMPONENTS

| COMPONENT | STATUS    | OWNER / TEAM   | NOTES  |
|-----------|-----------|----------------|--|
| BUDGET    | ON BUDGET | MetaMorph Team | No outstanding budget notes at this time   |
| RESOURCES | ON TRACK  | MetaMorph Team | Tools installation and configuration completed - Python and Jupyter Notebook - Power BI Desktop - AWS account and services - Landbot - Github Repository - Microsoft Teams                                   |
| TIMELINE  | ON TRACK  | MetaMorph Team | Revised the project timeline to include reports as the final milestone. As a result, expect the completion of other deliverables ahead of the original schedule. See the last page for the updated timeline. |
| SCOPE     | ON TRACK  | MetaMorph Team | No major changes to original project design  |

## WORK ACCOMPLISHED

| TASK NUMBER | DESCRIPTION  | OWNER / TEAM                   | NOTES  |
|-------------|--|--------------------------------|--|
| CFBS-01     | AWS client connection                                    | Roger Mais                     | Initial setup of AWS with configured API gateway to<br>allow the chatbot application to connect to<br>backend services such as DynamoDB and S3 bucket                                    |
| CFBS-05     | Initial launch of chatbot application                    | Roger Mais                     | Development of the chatbot application features is currently in progress using Landbot platform. Its initial release included test connectivity to AWS. See recording of app.            |
| CFBS-04     | ChatBot application prototypes                           | MetaMorph Team                 | Created mock-ups for each feature of the chatbot application. Screenshots on <u>link</u>   |
| CFBS-11     | Data gathering for sentiment analysis (machine learning) | Bhumika Babu,<br>Olivia Deguit | Sourced multiple airline reviews datasets from Kaggle https://www.kaggle.com/datasets/efehandanisman/skytrax-airline-reviews https://www.kaggle.com/datasets/juhibhojani/airline-reviews |
| CFBS-11     | Data gathering for passport reader (machine learning)    | Auradee Castro,<br>Miraj Sinja | Collected passport images from different countries (majority from US and Canada). Dataset on <u>link</u>   |

#### RISKS AND ROADBLOCKS

| TASK NUMBER | DESCRIPTION   | OWNER / TEAM   | FIX / RESOLUTION   |
|-------------|---|----------------|--|
| CFBS-06     | Developing the UI chatbot from the ground up by utilizing Flask and Streamlit | MetaMorph Team | Chose to leverage the Landbot platform to reduce development time and effort and to ensure a more user-friendly and interactive interface compared to building it from the ground up |

## HIGHLIGHTS AND KEY TAKEAWAYS

Successfully completed all deliverables for milestone 1 as communicated to stakeholders

Conducted a successful stakeholder meeting to gather feedback and align project objectives with expectations

Able to identify and raise potential risks/blockers on chatbot UI development and perform preventive measures by using Landbot platform

Established a connection between the chatbot and AWS, enhancing scalability and data management capabilities

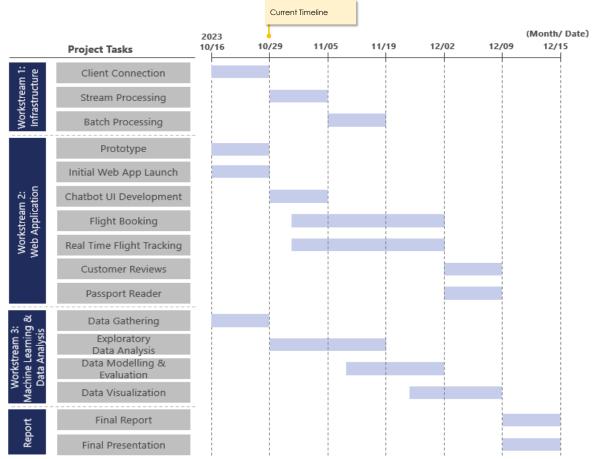
ChatBot development progress indicates a promising user experience with no significant roadblocks

### **UPCOMING WORK**

| TASK NUMBER | STATUS   | DETAILS  |
|-------------|----------|--|
| CFBS-02     | ON TRACK | AWS stream processing including the establishment of connection to Kinesis and \$3 |
| CFBS-06     | ON TRACK | Chatbot UI development   |
| CFBS-07     | ON TRACK | Flight booking   |
| CFBS-08     | ON TRACK | Real time flight tracking  |
| CFBS-12     | ON TRACK | Explanatory data analysis for sentiment analysis and passport reader               |

## UPDATED PROJECT MILESTONE AND TIMELINE

Revised the project timeline to include reports, i.e. final reports and presentation, as the final milestone. Hence, the completion dates for other deliverables have been moved earlier from the initial schedule.



Start Date Milestone 1 Milestone 2 Milestone 3 Milestone 4 Milestone 5 Final Deadline