

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 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.
TASKS	Completed initial setup for AWS and the chatbot application, establishing a successful connection		
	Finalized the prototypes for chatbot application features		
	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 allow the chatbot application to connect to 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 link
CFBS-11	Data gathering for sentiment analysis (machine learning)	Bhumika Babu, 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, Miraj Sinja	Collected passport images from different countries (majority from US and Canada). Dataset on link

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 S3
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.

