Deakin University

Capstone Team Project (A)

OnTrack Submission

Company Progress Report

Submitted By:
Harsh Dwivedi
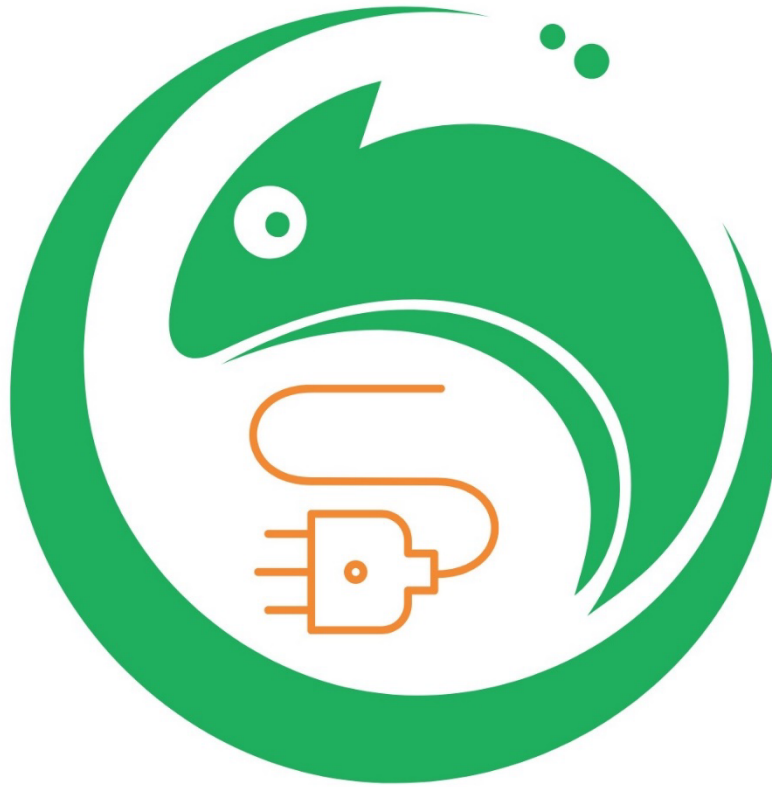s222483528

Tutor:
Azadeh Ghari neiat

Group Members:

attruong	Alex	Truong	👥
tsheaf	Tyler	Sheaf	👥
s222575318	Sonam chewang	Dorji	👥
kdebruijne	Kaimon	De Bruijne	👥
nkanakis	Nicholas	Kanakis	👥
s222515797	Khoi nguyen	Bui	👥
s223131339	Haritha Denuwan De Silva	Asuramuni	👥
s224236435	Hemaksh	Katal	👥
s222177696	Thilini	Fonseka	👥
s221429583	Sabih ul	Hassan	👥
s222483528	Harsh	Dwivedi	👥
s222470203	Randi Tamasha Gunasekara	Henadeerage Dona	👥
s222369928	Ethan	Longmuir	👥
abakhtiariasl	Arman	Bakhtiariasl	👥
rosee	Ethan	Rose	👥
mbd	Mitchell Barry	Day	👥
s218244778	Stephen	Le	👥
s223778177	Qasim	Zia	👥
s223429271	Nauman	Abid	👥
s221021624	Hnin Ei	Khaing	👥
s223632851	Farit	Zafar	👥
s223040509	Nihar	Jalela	👥
s224013556	Saiteja	Ravella	👥
s223456323	Nipun Udara	Yahathugoda Badalge	👥
s223816048	Kholud Abdullah O	Almutairi	👥
s222465258	Rahul	Sehrawat	👥
s222625866	Sachintha	Januge	👥
s223632922	Alireza	Montazeri	👥
s223064878	Emmanuel Clement	Anthony	👥
s223590519	Divyanga Chathurangi	Samarawickrama Lokuhetti	👥
s223502544	Jaskaranvir Singh	Jaskaranvir Singh	👥
s223645405	Ebi	Benny	👥
s223251652	Kushani Imanthi	Ranasinghe	👥
s223631612	Wanni Achchige Chathurika Deshani	Siriwardena	👥
s222514502	Mohammad	Behbahani Nia	👥
s223665607	Yulin	Zhuang	👥
s223413619	Chathumini Rashmika	Satharasinghe	👥
s223692571	Harold	Parappillil Sunny	👥
s223519971	Rose Mary	Joy	👥
s223640083	Awaze Ur Rahaman	Mohommed	👥
s223723734	Muhammad Subktageen Ahmad	Janjua	👥
s223282399	Goutham Krishna	Bala Murali Krishna	👥
s223531994	Shubh	Uniyal	👥
s223711461	Sai Priyamvada	Kuntamukkala	👥
s223634765	Sri Tharaka Sandamal	Dadigalage	👥
s223101742	Nouman	Ali	👥
s220167815	Ajay	Rajesh	👥
s223629209	Danish	Kumar	👥
s223724697	Jnaneshwari	Beerappa	👥
s223822546	Sahan	Chamod	👥
s223239943	Taehwan	Jung	👥
s222511405	Shut Keung	Chan	👥
s223606797	Suraj Radhakrishnan	Nair	👥
s223768076	Barani	Shanmugasundaram	👥
s224099224	Venkata Raghava Naveen	Veedhula	👥
s223969645	Adersh Antony	Thekkekuttu Michael	👥
s222470713	Farid	Vazirnia	👥
s223145266	Adityan	Balamuralidharan	👥

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August 24, 2024

CHAMELEON

FOR OUR SMARTER WORLD

Task 6.1P Trimester 2 2024

Chameleon

DEAKIN
UNIVERSITY

Content

Executive Summary

Our Mission

Given the complexity of energy application needs today, IoT systems are being designed to address a wide variety of existing problems.

At Chameleon, our mission is to research, create, test, document and deploy IoT-based solutions to enhance life through the application of smart city technologies. This includes the building of smarter cities, homes, transportation, and energy management systems.

Our Structure

Chameleon is structured into three main divisions, focusing on strategic areas of importance:

> Chameleon Website (CW)
>
> Electric Vehicle (EV) Adoption Tools (EVAT)
>
> City of Melbourne Open Data (MOP)

Chameleon Website

The Chameleon Website is a user-friendly and informative gateway to the Company, it targets potential clients and the public to showcase the company's initiatives and achievements. The website continues to evolve aimed to enhance user experience and engagement using responsive design, mobile optimisation, and SEO strategies. These objectives aim to communicate Chameleons vision and projects to create a dynamic and secure online presence. Furthermore, the project is to be deployed on Google Cloud Platform and have an integrated deployment pipeline.

Electric Vehicle (EV) Adoption Tools (EVAT)

The EV Adoption Tools project is dedicated to promoting the increased adoption of Electric Vehicles (EVs) in Australia. This initiative supports the reduction of fossil fuel dependence, decreases greenhouse gas emissions, and positively impacts the environment. The primary adoption tool is a mobile app that allows user to perform EV charger identification and route navigation according to user vehicle and personal preferences. The EVAT Website also provides EV related information and data science related applications.

City of Melbourne Open Data

The City of Melbourne Open Data collaborates with The City of Melbourne to enhance knowledge and develop applications for businesses, researchers, and software developers. Through the educational platform 'The Melbourne Open Playground' (MOP), they investigate the potential uses of Open Data, aligning their efforts with Melbourne's Smart City strategies.

Leadership Team

Company Director: Dr Azadeh Ghari Neiat

Chameleon Website
Senior Leaders: Umair Mohamed Feroze
Junior Leaders: Randi Tamasha Gunasekara Henadeerage Dona, Julian Douglas Holland, Su Myat Win, Adityan Balamuralidharan, Chandrakanth Kunapareddy, Kushani Imanthi Ranasinghe, Divyanga Chathurangi Samarawickrama Lokuhetti, Harshitha Shashidhara, Farit Zafar, Varun Kumar, Haritha Denuwan De Silva Asuramuni

Electric Vehicle (EV) Adoption Tools (EVAT)
Senior Leaders: James Davies, Mukul Kamalkant Singh
Junior Leaders: Goutham Krishna Bala Murali Krishna, Shut Keung Chan, John Collins, Nirmal Antony Mariadoss, Hue Minh Nguyen, Barani Shanmugasundaram, Sonam Chewang Dorji, Thenusan Santhirakumar, Eswar Sivan Sethu

City of Melbourne Open Data Project
Artificial Intelligence:
Senior Leaders: Lucas Kocon, Sahana Gollapalli
Junior Leaders: Khoi Nguyen Bui, Logan Guilding, Mobasshar Nomani, Nihar Jalela, Anh (Alex) Tuan Truong

Data Science:
Senior Leaders: Thomas Alexander Rostov, Akintomiwa James Aremu, Katrine Chan, Samiha Haque, Sachitha Sadeepa Kasthuriarachch, Manasa Nagaraja, Quoc Bao Ngo, Francis Albert Rusli, Madhuvaishali Thakoor, Venuka Hirushan Wijenayake, Liny Jose Alias, Aishwarya Mahajan, Dinuk Nadishan Kariyawasam Senadheerage
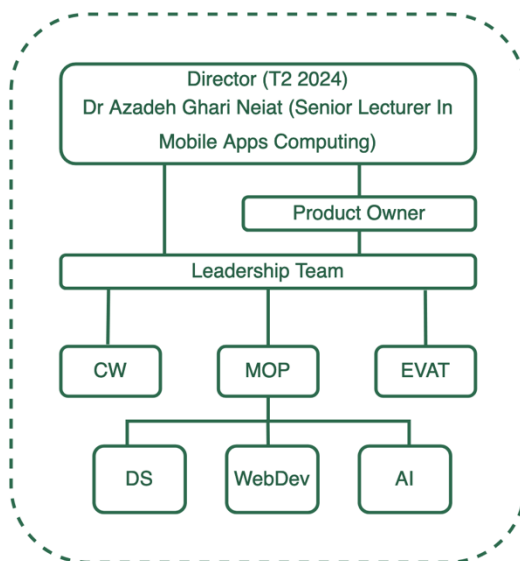**Junior Leaders:** Harsh Dwivedi, Emmanuel Clement Anthony, Jnaneshwari Beerappa, Sri Tharaka Sandamal Dadigalage, Sai Priyamvada Kuntamukkala, Awaze Ur Rahaman Mohommed, Chathumini Rashmika Satharasinghe, Samarth Dipakkumar Shah, Wanni Achchige Chathurika Deshani Siriwardena, Adersh Antony Thekekuttu Michael, Wijesinghe Arachchige Uvini Chamathka Wijesinghe, Naga Nikhil Woopalanchi

Web Development:
Senior Leaders: Hoang Duy Vu, Thamasha Galahena Galahahena Mudiyanselage, Adrian Thilina Weerasinghe
Junior Leaders: Danish Kumar

Company Structure

Director (T2 2024)
Dr Azadeh Ghari Neiat (Senior Lecturer In Mobile Apps Computing)

Product Owner

Leadership Team

CW | MOP | EVAT

DS | WebDev | AI

Mission & Vision

At Chameleon, our objective is to leverage IoT technology to develop and implement smart city solutions that are efficient, sustainable, and enhance energy usage, transportation, and urban living.

@Chameleon-Company

Trimester 2 Goals and Objectives

This trimester the City of Melbourne Project seeks to develop its new Artificial Intelligence team to utilize Machine Learning and AI techniques to forecast trends, optimize resource allocation, and improve urban living conditions through intelligent data analysis. In addition, the team will focus on creating new use cases, performing API repointing of old use cases and implementing existing ones to get the site up and running. The website team seeks to further enhance its UX and design (focusing on a more user-friendly experience) and implement multiple backend services (such as MongoDB) as well as transferring from AWS to GCP hosting solutions. The EVAT team will be restructured into an App/Web team and a data science team. The focus for the App/Web team is to rebuild a new Mobile App after unsuccessful attempts in Trimester 1 to debug the existing Mobile app. The Mobile App will focus on providing user specific location data for current EV chargers and provide route navigation services throughout Australia. The data science team will enhance and optimise the current route navigation algorithm and look to identify and build out additional data science related use cases.

Projects Overview

Chameleon Website

Overview

The website serves as a dynamic platform to not only publicize the achievements and progress of Chameleon but also to engage with stakeholders, including clients, partners, investors, and the public. By providing comprehensive information about Chameleon's overarching goals, values, and accomplishments, the website aims to enhance transparency and foster trust among its diverse audience.

Goals and Objectives

The main objectives of the Chameleon company's website are multifaceted, aiming to provide a centralised hub where visitors can access comprehensive information about Chameleon and its subsidiary companies. This one-stop destination is designed to advocate for the company's mission and promote its services while ensuring the website remains visually appealing and user-friendly.

Aims This Trimester

This trimester, our main goals are to enhance the website's usability and engagement. We'll improve the UI/UX across the system, develop the system's backend, optimise images for faster loading on mobile devices, ensure browser compatibility, enhance accessibility, implement a newsletter signup popup, optimise performance, create interactive tools for CRM management, incorporate a user feedback mechanism with an enhanced analytics dashboards, and finally deploy the application on GCP. These efforts aim to provide a seamless and enjoyable experience for all users.

Deliverables

- Enhance all forms with error handling.
- Integrate Post Management.
- Optimize images for faster loading on mobile devices.
- Improve browser compatibility.
- Perform Whitebox and Blackbox testing.
- Optimize website performance.
- Incorporate a user feedback mechanism.
- User roles and permissions.
- Deployment of GCP.
- Pipeline development for improved standards.

Mid Trimester Update:

- Requested GCP Credentials for deployment.
- Fixed CSS across all screens
- Register User Screen completed.
- Profile Screen Component Developed with Change Password and Edit User features.

- Support Page Enhanced
- Improved Chatbot CSS

Chameleon Website Project Team Member:

Name	Student ID	Contributions week 1-5
AKASHDEEP	223040483	Over the past few weeks, I've made significant contributions to our project's advancement and team cohesion. Initially, I invested time in familiarizing myself with onboarding materials and attended GitHub sessions to enhance my skills. I've assisted colleagues in setting up their projects by troubleshooting errors and offering ideas for website enhancements. I actively participated in Team Meetings where I did brainstorming and proposed the ideas to enhance Support page for the Chameleon project, In sprint 1, I was able to merge my pull request successfully into the GitHub where I've implemented headers and footers for the support page Moreover, I've redesigned the support page by adding borders, revamped FAQ questions in dropdown format to make it more interactive and updated CSS for the colours ensuring overall website aesthetics remain coherent and consistent.
SIREESHA AKURATHI	223796895	I led the Firebase backend integration, enhancing real-time data synchronization, user authentication, and security, which significantly improved the Chameleon website's backend capabilities. I implemented modern front-end practices, including React JS and responsive design, resulting in a more modular, maintainable, and accessible user interface. I fostered a collaborative team environment through regular meetings which ensured transparency and timely task completion. My efforts in conducting skill development workshops have also kept the team updated with the latest technologies.
KHOLUD ABDULLAH O ALMUTAIRI	223816048	In this project, I took on the responsibility of leading the Chameleon Website development team. In the first week, I selected the project, and in the second week, I chose to lead the task of (Fixing CSS across all screens) I then created a group for my team and assigned tasks based on each member's preferences and strengths to ensure the best outcomes. My responsibilities are distributing tasks according to the team's capabilities, and monitoring progress while providing necessary support. I coordinated the team's efforts to improve the user interface across all screens for a consistent experience and oversaw the implementation of the proposed design enhancements. Also, I organized knowledge-sharing, which enabled us to achieve significant milestones and meet our goals within the set timeframe. After each member completed their assigned tasks, the final product was a fully coordinated and high-quality website. My leadership focuses on ensuring smooth communication and effective task management.
ANENA GHOSH	223792684	I used MS Teams to access MS Planner throughout the first few weeks of the project, and I gave myself the assignment of improving the help page. After reviewing the page as it is, I identified the main areas that needed work. By Week 2, I had added more functionality, such as a searchable knowledge base and an interactive FAQ section. In Week 3, I did usability testing and read pertinent materials, making adjustments based on user feedback to guarantee optimal performance and

Name	Student ID	Contributions week 1-5
		satisfaction. I gathered user feedback and documented policies for the support team to find common problems. After feedback was categorized according to navigation, information clarity, and usability, the help website was updated with a search bar and a more user-friendly structure. The design and content were improved through iterative adjustments. All updates were meticulously recorded, and a status report was created to outline contributions, actions, and future steps.
HARITHA DENUWAN DE SILVA ASURAMUNI	223131339	So far, I have completed my allocated tasks as a junior leader for this unit and attended all the meetings held. I worked on the "Implement register user" ticket on MS Planner and I formed a group with others who are interested on the same ticket and allocated the tasks that were required to complete the ticket. We as a group had a good communication throughout the sprints and held couple of meetings to discuss the issues my team were facing. In part, I fixed couple of errors and bugs that were related to sign in, and a new user can now register to the system properly. I have also added more input fields to take information from the user when registering for future database expansion purposes. And finally, I added dynamic password validation for sign in page.
ARMAN BAKHTIARIASL	220492498	Since joining the team in Week 5, I have been actively participating in meetings and focusing on deploying microservices using Kubernetes and Azure. My work has primarily involved Infrastructure as Code (IaC) with Terraform. I installed and configured Terraform on my machine to manage infrastructure through code, then utilized it to create and manage Azure infrastructure, including setting up a Kubernetes cluster. Regarding Azure Kubernetes Service (AKS), I created and configured a managed Kubernetes cluster in Azure using Terraform, which included setting up a resource group. I also installed Azure CLI and connected kubectl to the Kubernetes cluster. Finally, I published the Docker image to a container registry, integrated it with Kubernetes, and deployed the microservice to the production cluster.
ADITYAN BALAMURALIDHARAN	223145266	This trimester, I have been actively engaged in enhancing the Chameleon website's UI/UX interface and preparing for its deployment on Google Cloud Platform (GCP). I collaborated with Harshitha and our team lead, Umair, to ensure smooth project execution. Key achievements include testing the frontend with Docker and proactively addressing the need for GCP credentials. I am currently awaiting the credentials to proceed; I have prepared everything necessary to deploy the system swiftly once access is granted. My next steps include setting up CI/CD pipelines and ensuring that the deployment is seamless and scalable. Through this experience, I am also developing my leadership skills by managing the team's tasks, communicating effectively, and learning alongside my peers.
MOHAMMAD BEHBAHANI NIA	222514502	My contributions was particularly on the front-end side of the login web page. My work began with fixing various CSS issues, which involved refining the layout and ensuring a responsive design across different devices. I then integrated Tailwind CSS to standardize the styling process, applying utility classes to create a clean and modern user interface. I have redesigned the user input fields, changing them from basic lines to more intuitive and visually appealing input boxes. I

Name	Student ID	Contributions week 1-5
		also focused on improving the sign-up section of the login page, optimizing its design and user flow for a better registration experience. I have worked on my own branch at first, and finally, after consulting with my team, I have merged my changes into the feature-login-user branch. My contributions were guided by regular meetings with the team, where we discussed our approach, ensuring that our efforts aligned with the project's goals.
DANIEL BLAIR	223215521	I am building on my contribution to the Chameleon Security Team last Semester by enhancing Chameleon's IoT capabilities through practical device development. I have established deployable, real-world IoT devices along with comprehensive policies and guides for secure setup and communication including: • IoT Policy Document – I outline Chameleon's IoT policies covering data handling, security, device management, compliance, and incident response. • IoT Device Simulation Prototyping – I employ Wokwi to virtually prototype an IoT device, including microcontroller configuration, integration, and code functionality tests. • MicroPython REPL Setup – I showcase microcontroller setup with MicroPython REPL using PuTTY, Thonny, and VSCode. • Microcontroller Device Setup – I Demonstrate powering and verifying communication with a Raspberry Pi Pico microcontroller. • Microcontroller & Sensor Communication – I showcase steps to connect sensors to a microcontroller to ensure data integrity. • CoAP Client-Server for IoT Device Security Testing – I provide a step-by-step guide for setting up a CoAP client-server environment for security testing.
UMAIR MOHAMED FEROZE	218118134	As the senior leader in the Chameleon Website project, I successfully migrated our workflow from Trello to MS Project, streamlining task management. I onboarded new team members, sharing project dynamics and establishing a clear communication structure to resolve previous trimester issues. To kickstart our sprint planning, I led a brainstorming session and hosted internal leadership, team meetings, and a mentor introduction. My technical contributions included leading teams in tasks such as Profile Screen, enhancing the Support Page, and contributing as a teammate in fixing CSS issues. I also managed GitHub code reviews and resolved conflicts, ensuring smooth merges. By initiating GitHub best practices, I maintained code quality. I provided around-the-clock support to my teammates, often extending past midnight to ensure project success.
RANDI TAMASHA GUNASEKARA HENADEERAGE DONA	222470203	I contributed to the chatbot page by improving its CSS to enhance user-friendliness and overall visual appeal. I implemented various interactive effects that aligned with the website's theme, ensuring a cohesive user experience. Additionally, I updated the JavaScript code, transitioning it to the latest ES7 standards for better performance and maintainability. I also resolved a rendering issue caused by the previous CSS, ensuring the chatbot page displayed correctly on the browser. As a Junior Leader, I attended every weekly meeting, both general and internal leadership meetings. Additionally, I attended the weekly company leadership meetings to stay aligned with the broader project goals. During Sprint One, I contributed equally to the leadership efforts

Name	Student ID	Contributions week 1-5
		alongside my fellow junior leaders, ensuring we successfully managed our tasks and met our deadlines.
JULIAN DOUGLAS HOLLAND	220330887	Development of secure coding practice in documentation, as well as application security testing in relation to cybersecurity. Leadership for group task as allocated in planner. Delegation of tasks within planner group relevant to other team members relevant interests and skills, as well as management of team to ensure deliverables. Internal discussions in both team and leadership meetings. Upskilling based on newly perused website team.
NICHOLAS KANAKIS	221280572	I have been involved in a number of team meetings, within my own coding group and meetings that include the whole team in this project. I have attended every meeting along, as well as producing notes and documentation of all things to do with my section of code. As a junior leader, I feel as if my developing and reviewing of pulls and request within the GitHub code base has been efficient and helping in the completion of this project. I have kept in contact with most of the people required to complete these tasks, and listen to others' ideas, but also try and problem solve others' ideas when they come to me in need of some help. I believe that I have been a positive influence on this project so far and hope to keep doing so until the development of this project is completed.
YUVRAJ KAPOOR	220252511	I have made several updates across our pages. On the Resource Page, I fixed text alignment, sizes, and formatting, and incorporated Chameleon Theme colours for consistency. Each section—Technology, Statistics, and Innovation—now includes a brief blurb. For the Technology Page, I standardized heading boldness and capitalization, corrected font usage, and adjusted alignment, container spacing, and text spacing. Similarly, on the Statistics Page, I implemented consistent heading styles, fixed font issues, and made alignment and spacing adjustments. Lastly, the Innovation Page also saw improvements with consistent heading boldness and capitalization, corrected fonts, and refined alignment, container spacing, and text spacing.
MUHAMMAD JAHANZAIB KHAN	223739038	I successfully implemented the password change functionality in the profile-screen-component task. This involved creating a secure and user-friendly interface for users to update their passwords. I ensured that the functionality adhered to best practices in terms of security, including password validation. I effectively collaborated with Umair Mohamed Feroze, coordinating our efforts through a focused 11-minute meeting. During this meeting, we discussed our approach, divided tasks, and set clear goals. My ability to communicate effectively and work as part of a team was crucial in ensuring the successful completion of the task. This achievement highlights my strong teamwork and communication skills, essential traits for a successful frontend developer. It demonstrates my ability to work efficiently in a collaborative environment, contributing to the overall success of the project.
VARUN KUMAR	223758153	Being a junior leader, I led my team in the "Edit Resource Page" feature. I managed all team meetings, organizing and planning regular meetups. I also kept in touch with the senior leader to report the added features. As an individual, I worked on creating the backend using

Name	Student ID	Contributions week 1-5
		ExpressJS and integrating Firebase Database. Overall, my contribution can be summed up as a coordinator, leader, and backend developer.
CHANDRAKANTH KUNAPAREDDY	223798216	As a junior leader, I have actively participated in all team meetings, including those with my mentor and the leadership team. These meetings have been crucial in aligning our project goals and receiving valuable feedback. I successfully completed my assigned ticket, which involved integrating Firebase to manage user profile details. This task required storing user information securely and implementing a robust login system with email verification. The process of ensuring that only verified users could access their profiles was both challenging and rewarding. This experience has significantly enhanced my technical skills and confidence in handling complex backend integrations.
STEPHEN HOANG LONG LE	218244778	I made updates to the 404 error and support pages by incorporating the navigation bar and footer, allowing for consistency across all the pages. In addition, I made improvements to the CSS styling to the login page, to modernise the appearance while keeping it simple. I updated the login page to have rectangular input boxes with certain stylings and effects for a better user experience.
MOULIK MAHAJAN	224258246	I have contributed to the website by developed the 404 page in which I have added the nav bar and footer in which there is 404 page was limited so I added the background animation to it which continuous move and added the home button to it to directly move to the home page. In the contact page in which there is how a user can contact the chameleon is also mentioned and I have made it done by implementing the copy button feature to phone and Email part also there is a option of the send email in which user can just click the send Email button and the default mail box of the user open by Chameleon Email in Receiving address set by default. I have attended the meeting of teams and was also in contact with the team members and leaders which help me learning a lot of stuff.
SUBRAMANYA N S	223113345	Throughout the Chameleon Website project, I have made significant contributions that span both technical development and project management. I started by expanding the resource page with the addition of a new Security card, addressing critical IoT security issues. I then implemented a dynamic "Remove" button for each card, allowing users to manage content more effectively. To further enhance user interaction, I developed a modal form enabling users to add new resource cards directly from the webpage. On the backend, I have initiated to have a local storage system (Firebase) by setting up a scalable and efficient environment. Additionally, I have coordinated tasks, managed deadlines, and fostering a collaborative team environment. My active participation in meetings and innovative suggestions, such as implementing a dynamic content management system, have driven the project forward, ensuring a robust, user-friendly website that meets all objectives.
BHUPENDRA PANDEY	223249955	Worked on designing responsive and engaging login page using UI/UX design. Made changes to UI components for better visual design like contrast ratio, typography, brand alignment, colour scheme and layouts. Added responsiveness to webpage to adapt across different screen sizes. Matched consistent styles with the overall website using predefined configuration style settings. Worked to produce visually

Name	Student ID	Contributions week 1-5
		clean design to attract user focus to important elements and deliver enhanced experience. Removed redundant classes and selectors to make the code readable and maintainable.
BRITTANY PATTERSON	219462585	Used JavaScript and CSS styling to create a 'comment section' under the statistics card, on the 'resources' page, allowing website visitors to leave their thoughts/opinions re: topics in the resources section. Fits in seamlessly with the current design of the website. Will later be integrated with a back-end database, so that all comments remain permanently. Current design allows user to post a comment, which is timestamped.
KUSHANI IMANTHI RANASINGHE	223251652	I have made significant contributions to the Chameleon website by expanding the chat box toggler. Recognizing the importance of consistent user access, I implemented the toggler across every screen of the website. This change ensures users can engage with the chat box no matter where they are on the site, significantly improving the overall experience. Additionally, I focused on making the toggler more visible and user-friendly. I repositioned the toggler to be immediately visible upon loading, making it one of the first elements users see. Moreover, I moved the toggler from left to the right side of the screen, following user feedback, and aligning with common UI practices. These improvements have made the chat box more accessible and easier to use, contributing to a smooth user experience. As a Junior Leader, I participated in all weekly meetings, including general, internal leadership, and company leadership meetings, and contributed to meet tasks and deadlines successfully.
DIVYANGA CHATHURANGI SAMARAWICKRAMA LOKUHETTI	223590519	I have significantly enhanced the Chameleon website by implementing CSS enhancements to the chat box, making it more user-friendly and accessible. These improvements have streamlined the user experience, ensuring that the chat box is easier to navigate and interact with. In my role as a Junior Leader, I actively participated in all weekly meetings, including general, internal leadership, and company leadership meetings. My contributions played a key role in successfully meeting tasks and deadlines, fostering a collaborative and efficient working environment.
HARSHITHA SHASHIDHARA	224120377	Attended Stakeholder Meetings: Participated in regular meetings with company representatives, directors, and product owners to gather requirements, provide progress updates, and address project concerns. Team Coordination: Managed and coordinated tasks within the team, ensuring that everyone was aligned with the project goals and timelines. Utilized GCP Resources: Worked with Google Cloud Platform (GCP) resources to develop and enhance website features, ensuring optimal performance and functionality. Technical Troubleshooting: Actively contributed to identifying and resolving technical issues during the project, helping to minimize delays and maintain the quality of the deliverables.
PHUC DAT TRAN	222134337	Actively participate meetings, brainstorming ideas for new implementation, update features and test run the firebase functionality. The ticket I was initially started was implementing firebase and check if there are any more features required or any database need to be stored, at start we were to work through storing

Name	Student ID	Contributions week 1-5
		data through quick access using Facebook, google and I was working on the implementation. Due to update on un-necessary feature using quick access that ticket was removed.
FARID VAZIRNIA	222470713	As the lead for Front-End Development and UI Design, I have overseen the enhancement of the Chameleon website's login page, improving its layout, CSS, and user experience. Through regular team discussions and feedback sessions, we refined the design to meet project goals. The revamped login page has been well-received for its user-friendly interface, and the next steps include ensuring consistent design elements across the entire website. I will also lead final usability testing to gather user feedback and make any necessary adjustments for optimal functionality and user satisfaction.
SU MYAT WIN	222385178	I implemented dynamic email and password validation on an existing sign-up page using React.js. Despite no prior experience with React, I quickly learned its component-based structure and state management. I used regular expressions for real-time email feedback and dynamic checks for password criteria, providing visual user guidance. Collaborating with my team ensured seamless integration with existing components. This project improved my coding practices, React knowledge, and teamwork abilities.
HAOYANG YU	218413818	I have enhanced the user registration process for the Chameleon group by fixing bugs on the sign-up page and adding a user information button to the homepage header for easy access to personal details. I implemented new profile page features, including a 10-digit minimum for contact updates and '@' symbol validation for email addresses, which were also added to the registration page. Additionally, I actively support team members in resolving issues, contributing to a more efficient and cohesive work environment. I participate in all weekly meetings and help ensure tasks and deadlines are met.
FARIT ZAFAR	223632851	I made significant changes to the resources page, focusing on improving the layout, accessibility, and user interaction. These updates resulted in a more streamlined and user-friendly experience for our target audience. I added search feature implementation and bookmark feature to improve website layout and accessibility

EV Adoption Tools

Overview

The EV Adoption Tools project was initiated with the objective of promoting the widespread adoption of Electric Vehicles (EVs) in Australia. By leveraging innovative tools and strategies, the project seeks to address key barriers to EV adoption, thereby contributing to a reduction in fossil fuel dependency, mitigation of greenhouse gas emissions, and fostering a positive environmental impact on both local and global scales.

Goals & Objectives

One critical factor that affects EV adoption is EV charging infrastructure. EV charger Location, availability and charging speed are key EV charger attributes that impact the user experience and can be a barrier to adoption. Tools to support users navigate and utilise the EV charging network are critical to improve user adoption. At Chameleon the EV Adoption Tools team is focused on developing a mobile App that can provide users with:

- Visibility and information on EV chargers based on current location.
- Route navigation services through the EV charging network.
- User configurable parameters that include EV characteristics (battery size, range) and personal preferences (food preferences, services etc)

To support the mobile app a team of data science team members are continuously enhancing the above applications and researching additional EV related applications. These applications will be available on the EV Adoption Tools website.

Aims this Trimester

In this trimester the EVAT will migrate all task management from 2 Trello boards to a single EVAT MS Planner board. The App / Web team will complete a rebuild of the mobile App. In previous trimesters project teams have been unsuccessful in restoring the mobile app functionality and as such a decision has been made to rebuild the mobile app.

The critical functionality to be implemented on the mobile app include map-based location services where a user can identify and navigate to an EV charger that meets the user requirements. The mobile app will also be able to provide full point to point navigation services from any starting and ending location in mainland Australia.

The data science team will optimise and enhance the code required to calculate routes throughout the EV charger network. The data science team has grown significantly in this trimester and as such the team will research and assess future use cases for consideration with the product owner.

Finally, the website will be updated to include data science research and use cases. Infrastructure works will be completed such that the website can be hosted on appropriate hosting services and there made available for team members to interact with.

Trimester Deliverables

App / Web Development Team:

- Rebuild the mobile app on an appropriate technical platform.
- Implement user configurable details such as vehicle type and user preferences for charging costs, speed and nearby amenities.
- Implement map navigation services that include nearest charger, nearest charger based on user parameters and point to point navigation services.

- Website infrastructure updates to ensure website is hosted and available for browsing.
- Updates to website to include data science research and use cases.

Data Science Team:
- Optimise data collection for EV charger location data and make available for display on the mobile app.
- Optimise data collection for EV charger amenities data and make available for display on the mobile app.
- Develop data collection for EV characteristics and make available for selection on the mobile app.
- Optimise route navigation services and make available for execution on the mobile app.
- Research and assess additional data science EV use cases.

Mid-Term Project Update
Mobile App Development Team:

- **Project Overview:** Upon conducting a SWOT analysis and a skillset assessment, it was identified that the team had limited technical skills in areas such as React Native and Figma. To address this, the team dedicated the first 2-3 weeks to upskilling themselves in these tools, ensuring they were proficient and comfortable using them.
- Sprint 1**:** Once the team was adept with Figma, we commenced the first sprint, focusing on the initial phase of the design process for the EVAT application. This phase included the creation of the app's logo, landing page, sign-in/sign-up page, 'add vehicle' page, and the 'me' page. These pages underwent several iterations to refine the designs. By the end of first half of Sprint 1, we successfully completed the first phase.
- Sprint 2**:** In the second half of Sprint 1, Sonam facilitated cross-collaboration between the frontend and design teams to ensure the frontend team fully understood the logic behind the designs. One-on-one meetings were held to foster this understanding. Concurrently, we initiated the second phase of the design process, which included the home/map page, trip planner, save page, and further iterations of the 'me' page.

- **Backend Development:** During this period, Sonam provided API keys and playground code, and allocated full sprint tasks to the backend lead to ensure consistency and cross-functionality. A significant milestone was the assignment of a task to a backend member to harness the Gemini API. This feature will enable users to use voice commands and navigate to various stations hands-free.

- **Current Focus:** Currently, Sprint 2 is primarily focused on the frontend coding of the designs created by the design team, the map Integration in the homepage, secure login and signup (MongoDB) and harnessing Gemini.ai with the Trip planner page. We are also reviewing and iterating on the nutshell pages being pushed to the GitHub repository ensuring they meet design requirements. The navigation bar of the app is now ready and will serve as a template for all frontend developers working on the inner core of the application. Dynamic routing has been applied to the navigation bar to facilitate seamless integration.

Data Science Team:

- MS Planner Implemented. Sprint 1 and Sprint 2 Planned with 39 Data Science Tasks developed.
- 9 Additional use cases presented in Meeting #1 with Product Owner.
- New EVAT DS GitHub Repo created.
- Python function to identify the nearest EV charger given a current location developed.
- Python function to plot a route on a map developed.
- Systems Integration Architecture and requirements specification developed to align mobile App development and data science use case development.

EVAT Project Members:

App / Web Development Team:

Name	Student ID	Contributions week 1-5
SONAM CHEWANG DORJI	222575318	Leadership Contribution: I led the design and frontend teams, fostering cross-collaboration. I provided visual references and task allocation via MS Planner in PDF format, ensuring adherence to design requirements. I also introduced locofi.ai to speed up frontend development, facilitating multiple iterations and refining designs. I hosted one mentor meeting and several team meetings, offering constructive feedback and suggesting improvements. Team Member Contribution: In Sprint 1, I created the GitHub repository and README.md file, designed the interactive 'Add Vehicle' page on Figma, and participated in mentor, team, and stakeholder meetings. In Sprint 2, I developed the frontend code for the navigation bar, pushing it under feature/Navigationbar in our company repository. This serves as a template for other pages like Home/Map, Trip Planner, Save, and Me. Moreso, I assisted backend team members by providing API and Gemini AI keys for Google Cloud Platform.
THENUSAN SANTHIRAKUMAR	223228828	My contribution to the EVAT project has been focused on both technical implementation and leadership. As a junior leader in the Web/App Team, I actively engaged in meetings, provided technical guidance, and supported senior leadership. I have successfully implemented the front-end for the user sign-in and sign-up pages, and the code has been merged with the main repository. Currently, I am working on the back-end and database functionalities for these pages, ensuring secure and seamless integration with email, Apple, and Google sign-in features. Throughout the project, I have emphasized collaboration within the team, aligning our technical milestones with the project's objectives to deliver a robust and user-friendly application.
ESWAR SIVAN SETHU	223566161	Contributed to the development of the "Add Vehicle" page by incorporating all required elements into the Figma design. Me and my teammate created the designs for both the sign-in and sign-up pages using Figma. We collaborated on the project, dividing tasks equally to ensure efficiency. They utilized ReactJS to develop the frontend, successfully integrating the designs into the application. Our combined efforts led to the timely completion of the assigned tasks, demonstrating effective teamwork and technical proficiency in both design and development.

Name	Student ID	Contributions week 1-5
MITCHELL BARRY DAY	220059702	Throughout the project I have attended as many of the mentor and EV App meetings as possible. During these I would come prepared by filling out the excel spreadsheet and a plan to talk to my task progression. After the first few weeks of the project where I completed a Data Science task to get amenities using location and distance, I was tasked to backend sub group. In here I was tasked with GeminiAi integration. I am currently working through this. To make this easier to develop, I created a backend server using NodeJS, Express with endpoints that go to separate routers. Then each router has a series of endpoints. I then added files to enable dockerisation, some test scripts for testing the Ai and the API endpoints and pushed to a fork of the project. I am looking to talk with the leads to see if currently we may be overlapping with the Data Science teams tasks in terms of getting amenities, planning trips and so on.
THILINI P FONSEKA	222177696	As one of the chameleon company's EVAT team leaders, I have contributed weekly and helped to move the project progress forward. At the beginning, I have communicated with the team and other leaders to determine the objectives and goals. During the 2nd-3rd weeks, the leaders determined the techstack that would be used for the project. As part of the first sprint I was involved in the creation of the "ME" page's low fidelity wireframe designs on Figma alongside another junior team member. I helped my team members with upskilling on Figma. As part of the second sprint I am working with a member of the front-end team to create the front-end design of the page using React JS. I am also currently working on reviewing a document for the back-end team and providing feedback. In the coming weeks, I aim to volunteer to host meetings and continue helping where needed.
HEMAKSH KATAL	224236435	I have been working on the frontend development of landing page, I am working on designing and updating the layout and elements of that page according to the feedback about changes that the UI team received , I am presently working on setting up the react native environment to view the landing page in mobile using android studio, apart from this I have been learning new features of figma to have a better understanding of design made by UI team. I have been attending the meetings and giving regular updates about my task to junior leaders and discussing the problems that faced as well.
FANGZHOU JIA	222305846	I've offered and report my progress of each my assigned tasks and suggestive advices in weekly meetings and mentor meetings. In terms of technical contribution, I worked with my partner to redesign user interface of following pages: 'Landing page', 'Map filter' of EVAT app. The map filter page have be redesigned the following components: buttons, scroll wheel, slides bar, texts colour and background colour etc. In terms of contribution to project team and group of team: I was aways answering questions and the feedbacks needs to improve from my team members and my project leaders. I am working on the front end implements through React.js based on the UI design I made right now. I was always updates the status of each assigned tasks of team project timely and

Name	Student ID	Contributions week 1-5
		adding descriptions of the work I've into the comments of MS planner. report and record the working progress, challenges, next plan actively into stand up excel file per week.
HONGKUN MU	220427276	Throughout this project, I have consistently attended weekly team meetings, actively participating in discussions and contributing significantly to the design of the Map/Home page. Currently, I am engaged in coding and debugging to ensure the successful implementation and optimization of the user experience. Additionally, I have closely collaborated with the data team to ensure seamless integration between the frontend and backend. These efforts have helped maintain steady progress on the project.
ADRIAN THOMAS THAUS	222275741	I have been working as part of the App team by first upskilling in this field in terms of Figma, JavaScript, and React. I have worked with and reached out to a number of other members of this team to find my task in designing the 'Trip Planner' page. As part of this individual task, I have explored various themes based off my own original design, other member's pages, and those in the previous Evoleon app. Additionally I have attended the vast majority of team meetings, both the main meetings of this area of the company, and the app team meetings, where I have shared my progress and seek feedback or help with my task.
HARRISON TIERNEY	221190865	Throughout the teaching period, I have attended all company wide meetings as well as the individual App Team meetings setup by Seniors. I have prided myself in upskilling in React and JavaScript to better understand and contribute to my assigned work. I have also held meetings with team mates to better understand the needs and wants that are required of my work. I have had sole responsibility of creating the payment details page for the EVAT Web Application, along with additional pages that will be utilized for changing and showing current payment details. I have contributed to team meetings through questions and sharing my work for feedback as well.
NISHITHA DAYANANDA	223618809	Over the past weeks, I have contributed significantly to the EVAT Planner project by designing and developing key UI components, including the ME Page and Charging Station Details Page, ensuring they are user-friendly and aligned with modern UI/UX principles. I actively collaborated with my team, integrating their feedback into the designs to meet both user and team expectations. Moving forward, I will focus on refining the Charging Station Details page by implementing specific UI/UX improvements, such as enhancing readability, updating icons, and ensuring a consistent design.
RAHUL SEHRAWAT	222465258	I integrated the necessary components into the Figma design to aid in the creation of the "Add Vehicle" and "Charging station" pages. Using Figma, my teammates and I designed the sign-in and sign-up pages for the add vehicle and produced the comprehensive charging way station details page. To guarantee efficiency, we divided the tasks evenly while working together on the project. The frontend was developed using ReactJS, and the designs were successfully integrated into the program for our 'add vehicle' page. Together, we successfully accomplished the duties given to us on

Name	Student ID	Contributions week 1-5
		time, showcasing our ability to work well as a team and our technical expertise in both design and development for my task.
SHUBH UNIYAL	223531994	**Leadership Role:** In my capacity as a junior-leader, I took the initiative to organize and host two pivotal meetings focused on finalizing our project's tech stack. Understanding the importance of collaboration, I ensured that every team member's interests and strengths were taken into account. By fostering an inclusive environment, I was able to gather valuable feedback and reach a consensus that aligns with our team's diverse skill set, ultimately guiding us toward the most effective technology choices. **Technical Contribution:** On the technical front, I played a role in the backend development of our project. I was responsible for integrating various APIs, a critical task that ensures seamless interaction between different components of our system. Currently, I am working on the integration of geological APIs, including Google Maps API, to enhance our application's functionality. This work involves not only coding but also troubleshooting and optimizing the integration process.
YUHUA ZHAO	221209335	I contributed to the EVAT App project by enhancing the home/map page design using Figma. My primary focus was on improving the user interface and experience by creating a visually appealing and intuitive layout. This involved refining the colour schemes, icons, and navigation elements to ensure they aligned with the overall brand identity while enhancing usability. I actively participated in the weekly project meetings, where I provided updates on the design progress, discussed potential improvements, and collaborated with the team to address any challenges. My involvement also included gathering feedback from stakeholders and iterating on the design based on their input. This iterative process ensured that the final design met the project's requirements and user expectations, contributing to the overall success of the EVAT App's user interface.
MUKUL KAMALKANT SINGH	222296609	**Technical Contribution:** I contributed to the EVAT App project by enhancing the I actively participated in the weekly project meetings, where I provided updates on the design progress, discussed potential improvements, and collaborated with the team to address any challenges. User Design Testing is currently being undertaking by me. **Leadership Contribution:** As Senior Lead, coordinated sprint planning and task management for Sprints 1, defining objectives and delegating tasks to align with project goals. Provided mentorship to team members, offering technical assistance, and ensuring alignment with project objectives. Led meetings with the app team, facilitating collaboration across teams and fostering a supportive and productive environment. Hosted and participated meetings in Company Leadership Meetings.

Data Science Team:

Name	Student ID	Contributions week 1-5
JAMES DAVIES	218377995	I have structured the EVAT team into 2 separate teams (App/Web) and the Data Science team. I have led the data science team. I created the EVAT MS Planner and the initial tasks for the data science team. I assembled a data science junior lead team and led team meetings where roles have been assigned, plans prepared, and issues discussed. I have provided guidance and advice to all team members during mentor meetings and demonstrated the standard required in MS Planner tasks to record and demonstrate contribution. Technically I have imported EV Charger Data from Open Charge Map from Australia and 5 countries considered like Australia as ranked by the Grattan Institute. The analysis utilises the 'Date Created' field as the best estimate for when the EV Charger was built. A time-series comparison has been developed for the DC fast charger network to compare Australia against other counties.
GOUTHAM KRISHNA BALA MURALI KRISHNA	223282399	Technical Contribution: Led the development of a Python function to locate the nearest EV charger, incorporating clustering algorithms for enhanced efficiency. Utilized APIs from Open Charge and Open Street Map to extract and merge datasets, establishing a robust foundation for data analysis. Technical proficiency in using tools such as Python, Folium, and Power BI facilitated the creation of impactful visualizations, showcasing EV charger locations and providing insights for strategic decision-making. Completed courses on Git and APIs to bolster technical proficiency and support seamless team collaboration. Leadership Contribution: As Junior Lead, coordinated sprint planning and task management for Sprints 1, defining objectives and delegating tasks to align with project goals. Provided mentorship to team members, offering technical assistance and ensuring alignment with project objectives. Presented the use case document to the Product Owner and led meetings with the app team, facilitating collaboration across teams and fostering a supportive and productive environment.
SHUT KEUNG CHAN	222511405	In terms of technical achievements, I conducted EV trend analysis by leveraging my data analysis skills. Additionally, I successfully developed a Python function dedicated to route plotting, which involved integrating various parameters such as origin coordinates, destination coordinates, and a list of EV stations. On the leadership front, I took on the role of a coordinator within the app team, focusing on improving communication efficiency between the data science team and the app team. Moreover, I actively engaged in the company's weekly leadership meetings to remain abreast of the progress across different teams, thereby gaining a holistic insight into the company's growth trajectory. Furthermore, I participated in the data science team's weekly leadership meetings, contributing to discussions on project management matters.

Name	Student ID	Contributions week 1-5
JOHN COLLINS	223617689	Draft Software Architecture for Application Integration. Draft Progressive elaborate of EVAT the Information Architecture consisting of Progressive elaborate of EVAT the Information Architecture consisting of Domain Class Models and Data Flow Diagrams to construct the final Data Models
NIRMAL ANTONY MARIADOSS	223919703	I have compiled a detailed dataset of EV passenger cars available in Australia, covering specifications, market availability, and pricing. This dataset includes verified attributes like make, model, battery capacity, range, and cost, providing a solid foundation for advanced analysis and strategic decision-making. Additionally, I created visualizations to highlight key trends in the Australian EV market, particularly focusing on the distribution of EV models by size and average cost. These clear and intuitive visuals help stakeholders across the industry make informed decisions by presenting complex data in an accessible manner.
HUE MINH NGUYEN	220466717	GitHub Coordinator: I have set up a new GitHub repository for our data science team, structuring it to optimise collaboration and version control. I also created a comprehensive document detailing the GitHub repository structure and Git processes. This document has been instrumental in guiding team members on how to efficiently fetch, commit, and merge their work, ensuring that the team's workflow is seamless and that contributions are well-coordinated. Coding Task – Battery Consumption Calculation: I have completed a coding task where I developed a Python function to calculate the percentage of battery consumed during a trip from one location to another.
BARANI SHANMUGASUNDARAM	223768076	I collected relevant datasets on energy consumption and efficiency, then meticulously cleaned and pre-processed them to ensure accuracy. I developed predictive models using machine learning techniques to simulate energy trends, which helped forecast potential outcomes. Additionally, I created visualizations like charts and dashboards to effectively communicate these insights to our stakeholders. Collaborating with my team, I ensured our models and visualizations aligned with the project's goals, contributing to informed decision-making and the overall success of our sprint.
ADITYA GAHLOT	222093645	So far, my contributions to the project have been centered around data science and technical development. I documented essential use cases for the project, identifying areas where data science could drive meaningful insights for electric vehicle services and provided detailed implementation plans for these use cases, ensuring that they were actionable and aligned with the team's goals. I conducted a comprehensive sentiment analysis of EV news articles. This involved gathering a wide range of articles, performing web scraping, pre-processing the text data, and analysing the sentiments expressed to gauge public perception of EVs. I visualized the results using graphs. I extended this analysis to social media, focusing on YouTube comments related to EVs. Using a dataset sourced from Kaggle, I

Name	Student ID	Contributions week 1-5
		calculated the polarity and subjectivity of the sentiments expressed in these comments. This analysis, performed in Jupyter Notebook, was crucial in understanding the broader social media discourse around EVs.
NOUMAN ALI	223101742	So far, I have focused on key technical contributions to the project. I registered an API key with Open Charge Map and successfully tested the API responses using Postman. Following this, I extracted valuable data, including station IDs, names, longitude, and latitude, and wrote Python code to automate the extraction and storage of this information in an Excel file. Additionally, I reviewed the previous datasets created by senior students to ensure continuity and data accuracy. My next steps involve applying feature selection to refine the data further for detailed analysis. This groundwork is crucial for optimizing EV charger location recommendations, contributing directly to the project's success in promoting EV adoption in Australia.
WENJIE LI	220452853	Since joining the EVAT project team, I have been punctual in attending the project meetings every week and actively participating in all team activities to ensure close communication and collaboration with team members. During the sprint 1 phase of the project, I was tasked with designing the APP LOGO and MAP FILTER. In designing the APP LOGO, I gave full consideration to the project's brand positioning and target user group, and after multiple revisions and optimizations, I finally created a simple, recognizable, and distinctive LOGO. When designing the MAP FILTER, I focused on user experience, aiming to make the functionality more intuitive and user-friendly to meet the needs of users in map filtering. I will continue to work hard and contribute to the team's success.
EBI BENNY	223645405	In this project, I concentrated on developing a Python function to calculate navigation from an origin to a destination for the EV Adoption Tool with Chameleon. I worked closely with my team to outline the functional requirements and technical specifications of the navigation algorithm. I leveraged GitHub for version control to ensure efficient collaboration and track progress. After coding the function, I pushed my code into the branch and submitted a pull request, which is currently awaiting review by the designated reviewers. Additionally, I enhanced my skills in Python and GitHub to contribute more effectively to the project. Throughout this process, I maintained open lines of communication with my team.
JASKARANVIR SINGH	223502544	I have been deeply involved in designing and developing a comprehensive dataset tailored to optimize the placement of EV chargers. The dataset is built by carefully gathering and integrating various data sources to capture essential patterns and trends that will support EV adoption and infrastructure planning. My efforts have been centred around ensuring the dataset is robust, accurate, and versatile, capable of serving as a foundation for future analysis and model development. Currently, I'm able to hit the open street map API and open charge map API with my

Name	Student ID	Contributions week 1-5
		python script and currently working on cleaning up the data for more consistent feature set.
ROSE MARY JOY	223519971	In this project, I focused on developing a Python function to calculate electric vehicle (EV) charging times, considering various factors such as vehicle battery capacities, charge rates, and charger power outputs. I collaborated closely with team members to define the requirements and specifications for the function. Additionally, I integrated the code with GitHub to ensure version control and seamless collaboration within the tea. I tested the function with sample data, refining it to ensure accuracy and reliability. I also upskilled myself on Git, Python, and JavaScript to better contribute to the project's technical aspects. Throughout the project, I maintained regular communication with the team and our company mentor, providing updates and discussing progress, challenges, and next steps. I successfully pushed the code to the git hub branch and submitted a pull request which is currently awaiting review.
SURAJ RADHAKRISHNAN NAIR	223606797	I successfully carried the first data processing operations in Python, focussing on correctness and efficiency. This phase confirmed the dataset's dependability, providing a solid platform for future investigations. In addition, I did an advanced Git usage course, which considerably improved my version control abilities. This training improves branch management, conflict resolution, and commit history monitoring, resulting in more efficient and organised code integration. I also took Agile training to improve my project management skills, which resulted in a more responsive and dynamic project environment that better meets the changing demands of the team and stakeholders.
HAROLD PARAPPILLIL SUNNY	223692571	During my time on the EV Adoption Tools project with Chameleon Company, I made a significant contribution by developing a Python function that calculates the time required to stop at an EV charger. I began by familiarizing myself with the project objectives in Week 1, ensuring a solid foundation. By Week 3, I had been assigned the task of creating this function and conducted thorough research on relevant documentation and resources. Collaborating with a team member in Week 4, we focused on gathering and analysing critical vehicle and charger information, such as battery capacity, current battery levels, and charger specifications. This collaborative effort was crucial in ensuring the accuracy and reliability of the function. In Week 5, I successfully completed the Python code and pushed it to GitHub, contributing a vital tool that aids in the calculation of charging times for electric vehicles.

Name	Student ID	Contributions week 1-5
AJAY RAJESH	220167815	My contributions focus on developing a Python function for optimizing EV navigation routes, incorporating real-time data for charger locations and user-defined parameters like range and buffering. I integrated Open Route Services to enhance route accuracy and implemented algorithm improvements for efficient route calculations. Additionally, I researched APIs, analysed machine learning models for predicting peak usage times, and explored data science use cases to improve user behaviour analysis and charger scheduling. My involvement includes active participation in team meetings, providing feedback, and troubleshooting integration challenges. I also contributed to testing and debugging the app, ensuring stability and alignment with project objectives. My work continues to refine route optimization functions, expand the EV charger database, and support the overall team goals.
YULIN ZHUANG	223665607	Technical Contribution: I collected 36,000 EV charger usage data for data analysis. Through data organization, missing value processing and format processing, the data can be used for further analysis. Then analyse all data related to EV chargers such as usage frequency and charging amount statistics. Use python functions to analyse the usage of EV chargers in different time periods and use matplotlib library to generate histograms. In addition, analyse the charging amount and generate a histogram in the same way, and add more visual data to the histogram, such as the number of samples and the average of the histogram. After the analysis is completed, compare it with the existing data on the Internet to judge the authenticity and reliability of the analysis. Still optimizing the visualization. Team Contribution: -Participate in team meetings on time every week, accept the mentor's latest instructions and report personal project progress. -Update the MS Planner project board and pull request to GitHub in a timely manner
KA HO SAMUEL NG	222518061	I was assigned several tasks on MS Planner, starting with collecting and cleaning the dataset, which I successfully completed. My next task involves calculating the distance and energy consumption, as well as identifying and displaying EV charging stations along the intended route. Additionally, I actively participated in all team meetings to provide updates on my individual progress. During these meetings, I also took the opportunity to share my experiences from the previous trimester, where I was a junior member, with the current junior members, offering them guidance and support as they navigate their roles this trimester.

City of Melbourne Open Data Project – Melbourne Open Playground (MOP)

Overview

Since 2014, the City of Melbourne has been at the forefront of Open Data in Australia. In partnership with Deakin, they promote the increased use of their Open Data by businesses, researchers, and developers. As a key component of their smart cities strategy, the Melbourne Open Data Playground (MOP) website will showcase MOP's operations, intelligent data analysis, security details and use cases that align with its goals and objectives.

Goals and Objectives

The project's objective is to develop an educational platform cantered on practical applications of open data, designed for diverse stakeholders such as industry experts, government agencies, and academic scholars. The long-term goals include mining and tracking the City of Melbourne's open data, offering innovative solutions to the city's challenges through data analysis and AI techniques, increasing data usage rates, and supporting urban smart strategies.

Aims This Trimester

The focus is on assisting the initiation and setup of the newly formed Artificial Intelligence team, systematically addressing each published and upcoming notebook, and modifying and updating previous code to ensure proper functionality when downloaded.

The goal of the Data Science team is to develop a collection of IoT-based use cases that align with the City of Melbourne's three predefined areas of interest: Business Activity, Transport and Safety, and Environment and Wellbeing. The team plans to complete a full set of ready-to-publish use cases while also preparing a backlog for the next trimester, and repointing APIs of old use cases using API v2.1. Additionally, the team will migrate from Trello to Microsoft Planner to enhance project management efficiency, propose and create new use cases, complete unfinished ones, and update the organization in GitHub and MS Teams directories to improve overall workflow and collaboration.

The primary goal of our web development team is to integrate our website with user cases supplied by the Data Science team, enabling easy access through a sophisticated database solution. Additionally, we aim to deploy, rigorously test, and ultimately host the City of Melbourne's website. Our efforts will also extend to enhancing the website's design, framework, and features, ensuring a seamless and engaging user experience.

And finally, the emerging Artificial Intelligence team will seek to create novel AI-integral applications that align with Chameleon's smart city vision of technologies that facilitate for greener and more sustainable living. The team seeks to do this by developing artificial intelligence processes, collecting and annotating data for training and testing, and deploying the trained algorithm into use-case products. The new team will also create new use-cases as a backlog of products to meet any new demand for AI products and organise its workflow assets to create effective work immediately.

Deliverables

AI Team
- Establish a new GitHub repository for AI system files.
- Create AI systems to develop intelligent analytics and decision-making algorithms.
- Measure bias and variance to determine model accuracy.
- Integrate developed models into use cases for MOP reports or develop novel applications.

Data Science Team
- Migrate from Trello to Microsoft Planner for project management.
- Prepare for the release of analysed use cases that are completed.
- Generate five new ideas for use cases to maintain the team's ongoing productivity.
- Develop three to eight relevant and valuable use cases to be published.
- Continuously update data and APIs for early project cases to ensure the latest analysis, while replacing old files with API v2.1 to enhance the reproducibility of analysis.
- Continue to update and improve the file systems of GitHub and Teams to facilitate efficient navigation and guidance.
- Update old documentation with the latest file updates.
- Manage and upload the large use case files on GitHub.
- Continue to complete the backlog in MS Planner.

Website Development Team
- Publish all completed tasks on Planner.
- Migrate all tasks from Trello to Microsoft Planner for better project management.
- Ensure the establishment and maintenance of a fully functional website with uninterrupted operational capacity.
- Establish a dedicated database and integrate a webpage on the site where the data science team can seamlessly upload their work.
- Enhance the design system by refining symmetry and incorporating more intricate details. The objective is to develop a purpose-driven design that enhances the overall user experience.
- Conduct testing for the website.
- Work in conjunction with AI team to add more features to the website.
- Perform CI/CD pipeline tests on the website.
- Host the completed the website on a webserver (GCP, Azure).
- Make the website more user friendly.
- Add and refine the existing functions of the website.
- Integrate useful figures such as account management functionality and multi-language support within the system, dark and light mode throughout the entire website.
- Ensure the website is responsive across various platforms for seamless user experience on desktop, tablet, and mobile devices.

Mid Trimester Update:

AI Team

- Began development of 4 different artificial intelligence projects between a total of 22 team members
- Vehicle Classification has had many vehicle categories complete and ready for integration with open-source object-detection software and undergo application development.
- Health Behaviour analysis has undergone major data clean up, created machine learning analysis and developing its own natural language system for reporting insights.
- Chatbot Service project has many core NLP features programmed and integrated into Rasa, and awaiting a rigorous build before application development.
- Traffic Analysis has had multiple modules of analysis completed and reports have been made with a demonstrable build created.

Data Science Team

- Migration from Trello to Microsoft Planner for project management has been completed and is continuously being updated with the latest project status.
- 35 new use cases have been created across three focus areas:
  - 7 in Business and Activities
  - 19 in Environment and Wellbeing
  - 9 in Transport and Safety
- 32 use cases are currently being worked on.
- Effort is continuously being made to develop relevant and valuable use cases to be published.
- GitHub and Teams are currently up to date, with old documents archived, to ensure efficient navigation and good file management.
- Backlog in MS Planner is continuously being worked on.

Web Development Team

- The migration from Trello to Microsoft Planner for project management has been completed, and the platform is continuously updated with the latest project status.
- A design document was created to have a guideline for future designs in the next Trimesters.
- CI/CD pipeline is about 50% done and will hopefully be completed by the end of Trimester.
- Dark mode design is completed and will be implemented in the future.
- Mobile design is being worked on
- The website is being redesigned to be more user friendly.
- A database has been connected to the website and database related functionalities are being implemented.
- Calculated the GCP budget to create a proposal to Deakin to get GCP access.

Melbourne Open Data Project Team Members:

AI Team

Name	Student ID	Contributions week 1-5
NAUMAN ABID	223429271	I contributed to two pivotal use cases in this project. In Use Case 10, I led the data cleaning efforts and made significant contributions to Sub-Use Case 5 by performing a comprehensive analysis of traffic flow patterns and directional trends. Utilizing an LSTM model, I accurately predicted traffic flow, which was essential for optimizing signal timings and managing congestion effectively. In Use Case 7, I focused on annotating 150 images for vehicle classification, specifically targeting triple road trains. My work was instrumental in ensuring high-quality data, enhancing the accuracy of predictive models, and contributing to the project's overall success.
TOLULOPE EBENEZER AKIN-DADA	223022696	Over the past few weeks, I regularly attend weekly team meetings and mentorship meetings, I upskilled in using Python and focused on analysing health behaviour data use case, starting with data pre-processing and feature encoding to prepare the dataset. I applied a Random Forest Classifier to build a predictive model, which I then fine-tuned using hyperparameter optimization techniques to improve its accuracy. Additionally, I performed a cluster analysis to identify patterns and trends in the predicted behaviours and conducted a model evaluation to query specific health behaviours based on age, gender, and location. My leadership contributions include setting up the planner by splitting the use case into subtasks, regularly updating it, creating a chat group where we meet and share our views as a team, and having one-on-one conversations with team members to guide them on what to achieve in the project.
BROCK DYLAN ALEXIADIS	220256787	In the past couple of weeks, I have concentrated on vehicle classification for use case 7. With no prior experience in AI, I had to upskill myself in YOLOv8 formatting. I regularly attended team meetings and actively collaborated with team members on various tasks. One of my key contributions was creating a tutorial on how to perform data augmentation using Roboflow, which helped those struggling to find enough images. I also created the training and validation folders for two-axle trucks, collecting around 150 photos for the training set and 40 for the validation set, all of which I manually labelled. I did the same thing for four-axle trucks collecting around 200 images total and labelling, ensuring that the data was well-prepared for model training. Currently, I am in the process of working on two more vehicle classifications: unknown vehicles and four-axle articulated vehicles.
KHOI NGUYEN BUI	222515797	During this period, I attended some major leadership meetings with Ella, attended the AI team's weekly meeting, and participated in collaborative sessions with leaders across the AI, Data Science, and Web teams. I have done a number of critical tasks, some of which relate to data annotation for bicycles, motorbikes, and light vans for use case 7, and traffic volume and composition analysis in use case 10. I did this analysis by making two Power BI pages, accompanying tutorial videos for data annotation, and a step-by-step guide on creating a Git branch. Further, I helped teammates by answering their questions and assisted in the merge of datasets so that we

Name	Student ID	Contributions week 1-5
		could work collaboratively on use case 10. My involvement in mentorship and leadership meetings, coupled with my contributions towards setting goals for use case 10, shows my commitment to working in advancement of our projects.
KAIMON DE BRUIJNE	221287183	For the first half of this trimester, I have worked on use case 5. I sorted and cleaned the data to be used for this use case, taken from the "social indicators for city of Melbourne residents 2023" survey. I also put together an augmented dataset, as the sample size is rather small, to be used for making predictions on the likely hood of health behaviours. I then worked on analysing the survey data so that we might have a way to check the accuracy of our AI models once they are up and running, as a secondary objective for this analysis, I also looked for correlations between health factors and at which Melbourne suburbs were the healthiest.
LAKSH GILHOTRA	222437252	I am focused on developing an AI chatbot for Use Case 5, which involves analysing health behaviours in Melbourne based on gender, age, and location. My contributions in this technical capacity include designing conversational flows, implementing data analysis features, and ensuring the chatbot effectively meets user needs. These efforts reflect my deep investment in the project's success, as I work to create a tool that not only provides valuable insights but also enhances user interaction and overall functionality. Through meticulous planning and execution, I am committed to driving our project toward achieving its goals.
SAHANA GOLLAPALLI	222508953	As a part of the Chameleon AI team, I actively participated in weekly meetings, collaborating with team members on Use Case 5, Health Behaviour. I sought assistance from my fellow mates, which enabled me to develop a code for training and validating an AI model aimed at improving accuracy. I successfully pushed the code to GitHub, where I recognized opportunities for further enhancement to achieve better performance, aiming for an accuracy exceeding 50%. Simultaneously, I focused on achieving my leadership goals, ensuring that my contributions aligned with the broader objectives of the project and the team.
LOGAN GUILDING	220589655	In this period, I alongside other leaders facilitated the organisation of our new teams. I attended and held leadership meetings with Ella, MOP AI and within individual projects. I generated a MS planner for the entire AI team and recorded a tutorial to upskill my team. I have been joint lead for 2 projects. For Use case 2 I undertook critical tasks including coding a directional mapping script to be called by our NLP tool, and coding NLP intents for the script. For Use case 10 I lead the pre-processing of our datasets and reviewed code of colleagues assisting in pre-processing. I have begun analysing our dataset for insights relating to Speeding. Across both teams I have advised and supported my team members to see their progress and offer solutions for technical challenges. My contributions in both leadership and technical capacities show my investment in the success of our projects.
NIHAR RAMESHBHAI JALELA	223040509	In this period, I along with other junior leaders facilitated the organization of our new teams, I attended leadership meetings, mentorship meetings, and meetings within our use case. I

Name	Student ID	Contributions week 1-5
		represented the MOP AI Team in our client meeting with Remy and explained our vision and plan for the team. For Use Case 2 I setup my environment for the chatbot. For Use Case 5 I created a task for myself in the planner of developing an AI Algorithm for predicting health behaviours, where I tried out multiple machine learning algorithms and compared metrics such as Precision, Recall, F1 and accuracy and also created a small documentation which explained about different machine learning algorithms for the team if they ever want to refer to. There is a potential of collaboration of use case 5 with use case 2 which will be discussed in the next sprint.
JING KANG	223765611	In the first sprint, I completed some of task 7 's work, including the collection pictures and label work. Specifically, I processed three types of pictures: wagon, utility, and 4WD. In the first step, I collected relevant pictures from various resources to ensure that the different perspectives and features of each model were covered. Then, I annotated these pictures in detail. These are the work that I did in the first sprint.
HNIN EI KHAING	221021624	As a member of the Traffic Analysis team, I am contributing to the Strategic Road Segment Analysis subtask. My work so far has involved cleaning and preparing the dataset, ensuring that all entries are accurate and consistent, particularly with date and time formats and key categorical fields like road names and locations. Using Python in Jupyter Notebook, I performed exploratory data analysis, identifying patterns in traffic volumes and speeding incidents. I also calculated key features such as total traffic volume and the percentage of heavy vehicle traffic, which are crucial for identifying high-risk road segments.
LUCAS KOCON	218510242	I was among the few leaders to begin the formation of the new AI team, where I chaired all the first 3 team meetings to organise our fellows into group projects. I have worked in technical contributions to the Vehicle Classification project by collecting images, augmenting and annotating them into samples, and sharing into the group GitHub. I've also onboarded mostly other VC members for how they will share their work whilst undergoing review. I have also worked in reviewing other member's work and oversaw corrections that were made and were the pathway for approval and merging. Finally, I have shared the group progress of the AI team to fellow leaders and the company director of our progress in developing AI projects.
ETHAN JASON LONGMUIR	222369928	For my contributions in the Chameleon AI team, I have been working on vehicle classification. I have attended meetings that have been set up by the team leaders, when possible, I have been able to join the AI teams GitHub and so far, have finished one case study. I have submitted work on annotating data for 2 axle buses and am currently collecting data for 5 axle articulated trucks. I have also kept up to date with my OnTrack tasks submitting them as required.
NANCY NJOKI MBUGUA	221080099	I consistently attended weekly meetings with Ella, which helped maintain alignment and communication within the team. I successfully set up my GitHub account, made a pull request, and assigned myself to tasks on Planner to ensure timely completion of

Name	Student ID	Contributions week 1-5
		responsibilities. My proactive approach to task management allowed me to stay organized and focused. Additionally, I developed an AI model to analyse health behaviour trends in Melbourne, using a linear regression approach. This model provided valuable insights into the correlations and patterns in the data, contributing significantly to our project's objectives.
MD MOBASSHER NOMANI	222499162	
HARIPRASAD PULICKAL VENUGOPAL	223736039	Till this period, I have worked alongside with my team members in developing the chatbot logic. I have attended mentor meetings with Ella, MOP AI team meetings. I have created tutorial about rasa installation and usage and recorded the tutorial to upskill my team. I have created common working directory for the team in google colab so that we can work together. Then I have fine-tuned the rasa model for accessibility feature and station features. Fine tuning is still going on. Also, I have developed a web ui for the chatbot. Web ui is developed with html, CSS and JavaScript. Currently I was able to make interactions with chatbot through web ui and the replies are shown in the ui without any delay. Now I am working on station details fetch feature of the chatbot.
HAMZA NADEEM RANA	223703819	I consistently attended weekly meetings with Ella, fostering strong alignment and effective communication within the team. I successfully set up my GitHub account, made a pull request, and assigned tasks to myself on Planner to ensure timely completion. My primary focus is on Use Case 5, which examines health behaviours in Melbourne by gender, age, and location. Through careful planning and execution, I am dedicated to advancing our project toward its objectives.
SARFARAZ SYED	222599005	Contributed to the "Traffic Analysis and Road Safety Improvement" use case within the Melbourne Open Data-AI project at Chameleon. Set up the working environment by installing Python, Anaconda, and Jupyter Notebook. Engaged in foundational AI upskilling to better understand the project scope. Performed essential data pre-processing and cleaning, addressing inconsistencies in road names, locations, and suburbs. Updated vehicle classifications to more descriptive names for clearer analysis. Successfully committed all pre-processing and data cleaning changes to the Git repository, ensuring version control. Calculated total traffic volume and heavy vehicle percentages. Defined speeding thresholds based on speed limits and analysed speeding incidents.
ANH (ALEX) TUAN TRUONG	220213034	AI Chatbot team consists of four members: Hari, Logan, Nihar, and Alex. Alex proposed the Melbourne Public Transport (MPT) business case and defined 13 use cases that align with high-level requirements and reflect the company's values and mission. Defined the AI Process Architecture: MOP-AI-ProcessArchitecture.pdf. Outlined the chatbot project process. Created proof of feasibility for the chatbot, including an Entity Relationship diagram and detailed entity descriptions. Alex is currently working on five key use cases for the MPT Chatbot: Route Planning, Schedule Information, Transfers and Connections, Route Optimization, and Mapping. (Code completed)

Name	Student ID	Contributions week 1-5
ZIQIN ZHAO	217590332	I chose the task 7 vehicle classification topic and was assigned to collect Double Road Train and vehicle B double data tasks displayed on the MOP AI planner, which includes double road train, MAD, and b double these 3 checklist datasets. For Double Road train datasets, I created a train folder, collected 150 pictures and created a val folder, collected 30 pictures. To create a train folder, collect 150 pictures and created a val folder, collect 30 pictures for MAD datasets. For the b double dataset, I created a train folder, collected 150 pictures and created a val folder, collected 30 pictures. These three checklists are what I completed on Sprint 1. All data has already been committed and pushed to my GitHub branch.
QASIM ZIA	223778177	I started working on the Vehicle Classification Project (Use Case 7) and have maintained regular collaboration with team members and leaders. In the Traffic Analysis Project, I created documentation breaking down the project and made cards in the planner for task tracking. I coordinated with leaders on the project's direction and have been working on classifying or annotating four different categories of vehicles, with progress halfway through. Moving forward, I will continue with vehicle classification and annotation in the Traffic Analysis Project, maintain regular communication with team members and leaders, and seek additional mentorship and feedback to refine the project approach and deliverables.

Data Science Team

Name	Student ID	Contributions Week 1-5
EMMANUEL CLEMENT ANTHONY	223064878	So far in my Project I've significantly enhanced the accessibility of public transport services in Melbourne by analysing and visualizing the proximity and accessibility of key transit points. I've engaged in rigorous data analysis, crafted detailed visualizations, and shared these findings with my mentor in the mentor meetings, improving my strategy based on feedback. I successfully made and merged a pull request to the main branch of our project repository, as we approach the sixth week, I'm preparing to host the data science meeting and also helped in preparing agendas for the meeting. These efforts have not only supported the progress of my project but also helped me develop critical skills in data analysis and project management, positioning me to take on more significant responsibilities.
AKINTOMIWA JAMES AREMU	222497446	In week 2 I contributed by submitting the company task. Moving forward I assisted junior members with meeting agendas. Additionally, I hosted the leadership meeting in Week 5. I also created five use cases for the company, adding them to the ideation list. Later, I moved all leftover use cases that were not picked by any member from the ideation list to the backlog in the planner. On the technical front, I started working on my weather classification use case. I gathered data from the MOP website using an API, carried out data integration, and performed feature engineering and data cleaning. I also conducted analysis and feature selection, and I'm currently focused on model building for

Name	Student ID	Contributions Week 1-5
		prediction. Moreover, I resumed the function list task I began last trimester, with a goal to complete it this semester, ensuring it becomes a valuable resource for the company.
JNANESHWARI BEERAPPA	223724697	I have actively contributed to the team's success by guiding two teammates, in understanding the project setup and resolving their queries. I provided step-by-step guidance on the first four weeks' sessions, downloaded raw files from GitHub, and outlined them for his clarity. Additionally, I reviewed two pull requests on GitHub from my teammates and provided them with constructive feedback to improve their code quality. My involvement extends beyond just technical assistance, I also plan to take minutes during our weekly meetings and eventually host them, fostering better communication and collaboration within the team. I am also creating comprehensive notes on our capstone project and its management, which I will share with the professor and upload to GitHub for future reference. These initiatives reflect my commitment to both the project's success and the growth of my team members.
KATRINE KIT-YING CHAN	221375343	I have returned as a senior member, working closely with other senior members of Chameleon to help shape the company's direction and ensure its ongoing success. My responsibilities have included managing the onboarding process by creating the team list, integrating new members into the relevant teams and channels, and ensuring the DS and AI team members are also added to their respective chat groups. I've also actively participated in leadership, company, team, mentor, and client meetings, where I've offered encouragement, guidance, and mentorship to team members, fostering a collaborative and supportive environment. In addition to these duties, I successfully managed the initial COM client meeting, contributed to task 6.1, supported the MS Planner migration, and conducted thorough GitHub pull request reviews, providing constructive feedback where necessary. On the technical side, I've completed data pre-processing and visualizations for my use case and am making good progress toward finalizing the project in the near future.
SRI THARAKA SANDAMAL DADIGALAGE	223634765	As a junior student on the project, I have made important contributions in data cleaning, geospatial mapping, and clustering analysis, specifically focused on identifying restaurant hotspots in Melbourne. My work has provided insights into seating capacities and worker-to-seat ratios across different CLUE small areas, helping to pinpoint locations that may need more dining options. I successfully completed my Sprint 1 pull request and updated relevant documentation, ensuring alignment with project goals. Despite being new to the field, I have actively participated in team coordination by helping set up Git and managing repository tasks. I've also contributed to code reviews, learning from senior members while maintaining quality standards. Looking ahead, I plan to continue working on the restaurant hotspot analysis and further develop my technical skills. I will also assist with team documentation, creating clear Python guides to support our workflow and ensure we deliver strong, data-driven outcomes.

Name	Student ID	Contributions Week 1-5
DALJEET KAUR	222049265	I have actively participated in the mentor meetings and have started working on my use case 'Influence of Employment on prices of Houses". Firstly, I created branch in GitHub and then created folder named 'daljeet'. I used a template and started working in google colab. I have downloaded the datasets and did cleaning. While creating folder I had some issue but fortunately got sorted with the help of team members. My aim to Analyse the "Jobs per ANZSIC for blocks" dataset from the City of Melbourne's Census of Land Use and Employment (CLUE). Correlate employment data with house prices by small area. Examine the relationship between employment trends in various ANZSIC industries and house prices in different small areas within the City of Melbourne. Determine if changes in ANZSIC employment levels correlate with fluctuations in house prices. Identify which ANZSIC industries, if any, have the most significant impact on house prices. Gain a deeper understanding of the dynamics between employment patterns and the housing market in Melbourne.
HARSH DWIVEDI	222483528	I started working on my use case and helped onboard fellow junior members as a junior leader. I created my GitHub branch, read the API v2.1 documentation, and cleaned the data. I updated the cards on Planner, joined the review team on GitHub, and hosted weekly leadership meetings, taking minutes for them. Additionally, I created the pull request for Sprint 1, performed feature engineering on the dataset, and used Folium to create visualizations for maps. I reviewed four pull requests(giving feedback wherever possible), submitted all Ontrack tasks, trained the model on a random forest regression model, and hosted the W6 leadership meeting. I submitted 2.1P as a junior leader and actively participated in all weekly leadership and DS team meetings. I moved some dormant MS Planner cards to the backlog. I have actively assisted other team members whenever my help was needed.
MENGQIAN GONG	223065159	For the past few weeks, I work as a team member of the MOP DATA team at Chameleon Company. I've been working on the use case "Investigate the Effect of Business Type and Residential Properties on Energy Consumption", as an assistance for city administrators to identify high-consumption areas and developing targeted strategies to reduce energy use and promote sustainability. I have generated related data frames based on the structure of available datasets, with data cleaning completed and code written to extract required values for further analysis. From the dataset, I've revealed some key findings from the dataset, including lists of the top 10 blocks/CLUE areas with the highest energy consumption. These findings include details such as total energy consumption, energy consumption per square meter, total business area, total residential area, plot ratio, dominant business/residential types, and the number of jobs provided in each area.
SABRI SERKAN GULLUOGLU	217249723	I almost completed the data pre-processing phase. This includes converting given time values to target time zone, filling the missing values, splitting columns, changing variable types. I did first pull request for sprint1, updated MS planner card. I aim my work towards two goals (1-Finding real-time parking lot, 2- Forecasting future availability of parking slots.), I decided to do further

Name	Student ID	Contributions Week 1-5
		processing of dataset and further analysis to understand parking behaviour. Currently focusing on finding real time parking slots, therefore started to prepare the data for further analysis, this includes encoding categorical variables, plotted histogram graph of presenting the number of entries and exits per hour to visualize trends and distributions, calculating rolling averages, resampling data to an hourly frequency to understand the tendency of parking status. Next stage, I will use the pre-processed data for forecast modelling, using time series forecasting techniques to predict future parking availability.
SAMIHA HAQUE	223935632	I supported the cohort in onboarding and completing Sprint-1. I led the transition from Trello to MS Planner, creating and organizing over 30 cards, updating links, and cleaning up Teams folders and GitHub. I updated the Onboarding Checklist, set up meeting polls, hosted 2 meetings, took 2 meeting minutes, and assisted Junior Leaders with agendas and GitHub demos. I updated the Use Case Ideation document with 11 new use cases and helped setting up MOP AI team. I audited old Trello and GitHub content, drafted Task 2.1P, and created a detailed MS Planner tutorial. I assisted with Client slides and made posts on 2.1P, client meetings, and Sprint-1. I reviewed 8 pull requests and set up a group for Innofes 2024. For the parking availability use case, I used NLP with TF-IDF Vectorizer, geopy, cosine similarity, and Haversine distance to map parking options near places of interest.
SABIH UL HASSAN	221429583	I contributed to optimizing urban greening efforts by focusing on data retrieval, cleaning, and pre-processing. This involved removing duplicates, filling missing values using statistical methods, and standardizing data formats. I conducted an initial Exploratory Data Analysis (EDA), creating visualizations such as geospatial maps to highlight forest distribution and potential greening zones in Melbourne. Additionally, I performed correlation and outlier analysis to identify key relationships and ensure data accuracy. Technically, I cloned the project repository, created a new branch, and pushed my code to the master repository. I actively participated in code reviews, volunteered to assist with pull requests during Sprint 1, and offered help with Task 6.1. I maintained regular communication with my mentor, reporting progress weekly and seeking feedback to stay aligned with project goals.
LINY JOSE ALIAS	223057444	I have successfully worked on the "Exploring Accessibility for Disabled People in the City of Melbourne" use case, focusing on enhancing urban infrastructure for people with disabilities. My contributions include loading datasets via API, conducting thorough data pre-processing, and performing in-depth exploratory data analysis. I developed a facility score that effectively identified locations requiring accessibility improvements. My work on Sprint 1 was recognized and approved, with my Pull Requests being merged into the Master branch. Additionally, I took the initiative to start working on repointing APIs for previous use cases, ensuring their readiness for publication. I also provided valuable assistance to fellow students with technical difficulties, helping them start their use case successfully. My leadership is further demonstrated by contributing to host the Week 7 Data Science and Week 8

Name	Student ID	Contributions Week 1-5
		Leadership meetings. I have been consistently active in all team meetings and collaborations, contributing significantly to the project's progress.
TAEHWAN JUNG	223239943	I am working on analysing the impact of tourism in Melbourne as a use case. So far, I completed the exploration, pre-processing, and basic visualization for this use case and merged the work into the main branch. I have participated in all team and mentor meetings to keep my project in line with the team's direction.
DINUK NADISHAN KARIYAWASAM SENADHEERAGE	223237065	I successfully developed and optimized key machine learning models, including linear regression, by applying advanced feature engineering techniques that focused on temporal and geographic data. These efforts significantly improved model accuracy. Additionally, I explored various data feeding methods to boost model performance. I led the feature engineering process using extensive geographic datasets, such as footpath gradients and traffic flow, which were crucial for analysis. Furthermore, I integrated real-time environmental data with pedestrian traffic data, creating a comprehensive dataset that was instrumental in building accurate predictive models for evaluating pedestrian safety in different conditions. Throughout this work, I managed large datasets, ensured data consistency, and validated data accuracy to maintain the highest standards in our predictive modelling efforts.
SACHITHA SADEEPA KASTHURIARACHCHI	223270464	In my role within the Company, I have made significant contributions within the team, focusing on enhancing project efficiency, collaboration, and quality assurance. I led the creation of comprehensive guide documents for managing planner cards, which standardized task management processes and improved overall workflow consistency. My proactive approach to onboarding new and junior team members ensured they quickly adapted to their roles, contributing effectively to project objectives. I also provided critical support in reviewing pull requests, ensuring that all submissions met the high standards required for project success. Additionally, I have been instrumental in developing predictive models and conducting geospatial analysis, which are key deliverables in our team's project. My efforts have not only advanced the technical aspects of our work but also strengthened the team's cohesion and productivity, driving us closer to achieving our collective goals.
SINAN KILCI	222356603	I actively participated in team and mentor meetings to be on-track and keep everyone updated on my progress, discuss further steps, and ensure alignment with project goals. I chose and set up my project in MS Planner and GitHub, managing it throughout the project. My contributions on GitHub are involved cloning the project repository, creating my branch, and making a pull request. I have completed my use case, completed data exploration and the data wrangling process, using advanced techniques to clean and prepare the data, including correcting anomalies in wind speed measurements by using predictive techniques. I created text outputs and plots to support my findings and results in the data wrangling part. I used MOP-DS's project template to create the project notebook and used the latest version of Opendatasoft Explore API. I am now ready to move on to the analysis phase.

Name	Student ID	Contributions Week 1-5
SAI PRIYAMVADA KUNTAMUKKALA	223711461	I completed the data cleaning, analysis, and integration processes for key datasets including social indicators, bus stops, and tram tracks, addressing issues like missing geolocation data and standardization. I leveraged geolocation libraries to resolve data gaps and initiated integration workflows critical for our analysis on transport accessibility and resident well-being. In addition to these technical tasks, I raised a pull request (PR) for Sprint 1, which was successfully approved, reflecting my ability to deliver quality contributions within project timelines. I also played a supportive role in mentoring my peers, guiding them through setup processes, PR submissions, and API integrations. My active involvement in meetings, including volunteering for Week 7 meeting minutes and leading the upcoming Week 8 internal DS meeting, reflects my commitment to both technical and organizational growth within the team.
AISHWARYA MAHAJAN	222610398	I worked on use case related to identifying factors that lead to increase or decrease in waste management at Degraves Street. I worked on data retrieval, initial EDA and data wrangling & cleaning process that required removing unwanted columns, replacing missing values by appropriate methods, etc. Furthermore, I performed descriptive and time series analysis. Implemented visualizations to understand the important factors and plotted time series graph. Cloned the repository, created branch and pushed my code in master repository of the company. For leadership, hosted weekly meetings, helped peers and juniors with technical issues, worked on leadership tasks on MS planner and created python function guidance documents, collaborated with peers to prepare weekly documents, etc.
AWAZE UR RAHAMAN MOHOMMED	223640083	- Successfully collected, cleaned, and pre-processed datasets relevant to pedestrian foot traffic in Melbourne. This involved handling missing data, standardizing column names, and preparing the data for further analysis. My efforts have ensured that the data is ready for exploratory data analysis, which will be used to optimize urban infrastructure and improve pedestrian safety. - Organized the project repository on GitHub by creating branches and a playground folder, facilitating version control and collaborative development. This has streamlined the development process and allowed the team to work more efficiently. - I have taken on significant leadership roles throughout the project, including volunteering as a GitHub pull request reviewer and hosting Week 7 activities. My contributions in these roles have ensured that the team's codebase remains consistent and high-quality, and that team discussions are well-organized and productive.
ALIREZA MONTAZERI	223632922	So far in Chameleon Company, I have made significant contributions that have advanced our projects. I familiarized myself with the company structure to better understand workflow dynamics and identified the Air Quality use case as a crucial project. I established a dedicated branch in GitHub for efficient project management and developed a Jupyter notebook to fetch and display the dataset, ensuring transparency and ease of access for the team. My focus on data pre-processing, including handling missing values and

Name	Student ID	Contributions Week 1-5
		integrating spatial data, has strengthened the foundation for our machine learning models. Additionally, I actively participated in leadership meetings and workshops, where my insights have been instrumental in shaping the project's direction. By reviewing pull requests, I have contributed to maintaining high-quality standards, ensuring our work's consistency and reliability. These efforts reflect my commitment to driving the success of our initiatives and supporting the team's overall progress.
MANASA NAGARAJA	222586756	I have made significant progress by developing and understanding a wide understanding of the data analytics. I have gained insights into various aspects of data analytics, including the origin and characteristics of data and securely, know the analytics outcomes how it can be leveraged to improve business, organizations, or society. I forecast population growth across different regions and timeframes to identify areas with significant increases in population density and analyse the impact of population growth on transportation infrastructure. I conducted initial visualizations to understand population growth trends over time across various locations within Melbourne. In addition to my contributions to the project use case I have started on preparing a technical document titled "How to create folder using GitHub bash in GitHub." This document serves as a practical guide for setting up folder in GitHub, using GitHub Bash.
QUOC BAO NGO	220313209	I developed new use cases for team members, ensuring clear guidelines and relevant tasks aligned with our project goals. I took responsibility for managing and organizing tasks in the Team Planner, improving the team's workflow and accountability. Additionally, I facilitated regular team meetings by setting up polls on Microsoft Teams, ensuring everyone's availability and engagement. I also played a key role in reviewing pull requests on GitHub, focusing on code quality and providing constructive feedback to team members.
SAHAN CHAMOD JAYALATH PAMUNUWE MAHAVITHANAGE	223822546	During this project, I focused on data cleaning, geospatial mapping, and trend analysis, particularly on employment data across Melbourne blocks. By analysing worker-to-seat ratios, I helped identify areas needing more dining establishments. I successfully completed my Sprint 1 pull request, aligning my work with project goals. As a junior student, I took on repository tasks, led data cleaning for the Employment by Block dataset, and participated in code reviews, enhancing my coding skills. Moving forward, I aim to deepen my geospatial analysis expertise and assist the team in creating structured documentation to ensure efficient workflows and actionable project outcomes.
THOMAS ALEXANDER ROSTOV	221260666	So far I have continually onboarded all new members onto GitHub, and have created welcome announcements both regarding this and a general DS one too. I have hosted 3 meetings, and have done minutes/agenda too. I've reviewed multiple week 5 pull requests, and have in general kept in consistent communication with company members, both helping out and keeping up to date. As for my technical contributions, I have created two new use cases, one of which focuses on soil analysis and prediction, using the data collected from various soil sensors around the CoM, comparing

Name	Student ID	Contributions Week 1-5
		these to environmental weather conditions. The second use case focuses on analysing various social indicators from surveys connected on CoM residents throughout the years. As of now I have done extensive data manipulation and visualizations for both of these use cases.
FRANCIS ALBERT RUSLI	223045645	As part of the DS team leader I took charge of several initiatives, including the creation of new use case ideations and hosting our first client meeting with Remi. I actively contributed to shared company documents, such as 2.1P, and took minutes for our week 3 team meetings to ensure clear communication and accountability. I also led efforts in creating documentation for the initial client meeting and worked closely with junior members to prepare presentation materials, fostering collaboration and growth within the team. On the technical front, I focused on developing the tram and bus network use case. My work involved loading data via API, followed by extensive data cleaning and pre-processing to ensure data accuracy. I merged multiple datasets, creating insightful visualizations that highlighted key patterns and trends. This analysis helped shape our use case, providing valuable insights for the project and aligning with the client's objectives.
CHATHUMINI RASHMIKA SATHARASINGHE	223413619	I'd made key contributions to Chameleon Company by identifying the waste collection in degraves (User Case- Route Planner) , setting up a GitHub branch for project management, developing a Jupyter notebook for dataset access, focusing on data pre-processing, participating in leadership meetings, and maintaining high-quality standards through pull request reviews.
ROHANG RASHESH SHAH	223640421	I focused on the City of Melbourne Open Data Project, where I applied my expertise in data science and machine learning to analyse insect sightings in Melbourne. My key contributions include acquiring and cleaning datasets, conducting geospatial and temporal analysis, and developing interactive visualizations. I implemented machine learning models to predict species presence based on environmental factors, which enhanced the project's ability to forecast biodiversity trends. Additionally, I proposed strategies for community engagement and collaboration with local organizations to improve data collection and conservation efforts. Throughout the project, I ensured the documentation was clear and comprehensive, making it accessible for future teams. My work aimed to support the City of Melbourne's goals of using open data to drive impactful environmental initiatives, with a focus on preserving biodiversity through data-driven decision-making.
SAMARTH DIPAKKUMAR SHAH	223828778	I created a data analysis on wedding planner use case, involving the import and processing of datasets related to event permits, outdoor artworks, and public artworks in Melbourne. After importing the necessary libraries, I downloaded the data from public APIs and converted it into pandas Data Frames. I then cleaned the data by normalizing text, handling missing values, and removing duplicates. Following this, I conducted analysis by generating summary statistics and visualizing trends such as the distribution of events over time and the location-based distribution of artworks. Finally, I visualized the data using Folium maps to display the geographical

Name	Student ID	Contributions Week 1-5
		locations of artworks and events and used various plots to compare event categories and artwork types across different locations.
WANNI ACHCHIGE CHATHURIKA DESHANI SIRIWARDENA	223631612	I have selected a use case focuses on Transport and safety area to assess Parking Availability Around Cafe, Restaurant, Bistro seats, Bar, Tavern and Pubs and created a planner card to track the progress of the use case. The use case requires four data sets. I have I cleaned all four data sets, removed unwanted columns, removed duplicates, check for null values and finally added some required columns and merged data sets. Then created bar charts, Pie charts, stack bar charts using packages such as matplotlib, seaborn and identify the key insights and relationships of data as initial data visualisation insights Further I learned to work with categorical locations and geolocations using geopy and learned to plot location maps using folium. Then done my first pull request and merged my branch to company master branch.
MADHUVAISHALI THAKOOR	218335436	As a senior leader, I prepared agendas and took minutes for Week 2 DS, Week 2 and 4 leadership, and hosted the Week 4 DS meeting, and assisted juniors with the Week 5 DS meeting preparation. I led a tutorial on creating and accessing use cases, helping the team with planning, migrated 20 Trello cards to Planner, posted about new use case ideas, and inquired about integrating juniors into leadership discussions, which I communicated to the team. I reviewed two pull requests, posted about the Innofes registration deadline, and cleaned GitHub documentation. For my use case on public transport accessibility to business locations, I wrote a detailed proposal, cleaned datasets, and conducted in-depth analysis using Folium and the Haversine distance formula, created a filter based on Clue small areas and added an accessibility score to assess public transport availability near these business locations.
ADERSH ANTONY THEKKEKUTTU MICHAEL	223969645	As a member of the Data Science team, I contributed significantly by performing detailed data analysis and visualization tasks, which provided valuable insights for my project (Difference between old and younger people). I took the initiative to clean and pre-process the dataset, ensuring its readiness for modelling and further analysis. I also assisted teammates in troubleshooting data inconsistencies, enabling smooth progress for the entire team. During Week 3, I took the minutes for our meetings, ensuring that all discussions and decisions were accurately documented for future reference. My contributions extended to mentoring teammates on statistical methods and guiding them in using appropriate tools for data manipulation and visualization. Additionally, I am responsible for uploading the code file that contains our final scripts and outputs, ensuring that our work is well-documented and accessible for future use. These efforts have been instrumental in maintaining my project's momentum and achieving our collective goals
VENUKA HIRUSHAN WIJENAYAKE	223048223	In the current phase of the project, I have made substantial progress in data cleaning, exploratory data analysis, geospatial mapping, and predictive modelling related to Melbourne's bars and pubs dataset. These efforts have set a strong foundation for data-driven insights and future predictions. Additionally, I successfully completed my

Name	Student ID	Contributions Week 1-5
		Sprint 1 pull request and updated relevant project documentation. Beyond technical tasks, I have played a pivotal role in team coordination, providing guidance on Git setup and repository management, and reviewing code contributions to maintain high-quality standards. My mentorship has supported junior colleagues, enhancing their confidence and productivity. I initiated regular check-ins, fostering open communication and continuous improvement within the team. Looking ahead, I plan to offer ongoing support to team members and develop comprehensive guide documents for Python methods, aiming to standardize processes and bolster the team's technical capabilities.
WIJESINGHE ARACHCHIGE UVINI CHAMATHKA WIJESINGHE	223607603	In the week 1-5 of the project, I focused extensively on data cleaning and exploratory data analysis (EDA). I successfully completed the data cleaning process for both the bird and tree datasets, ensuring the datasets were accurate and ready for further analysis. After cleaning, I conducted comprehensive EDA on the bird dataset, generating bar charts and time series visualizations to uncover patterns and trends. Similarly, I performed EDA on the tree dataset, applying the same visual techniques to identify key insights. In addition to these tasks, I contributed to the team by setting up GitHub, creating and managing a new branch, and adding my folder to the GitHub Playground. I also participated in weekly CoM Leadership and DS Team Meetings, where I reviewed key project documents, ensuring smooth project progression.
NAGA NIKHIL WOOPALANCHI	218503534	During my initial three weeks at Chameleon Company's data science team, I concentrated on understanding the company's structure and actively engaged in preparing for and presenting at our first client meeting. This allowed me to work closely with senior team members from various departments, enhancing team collaboration and communication. Currently, I am involved in the City of Melbourne Open Data project, where I am developing a tool that enables stakeholders to analyse and explore business establishments. My tasks include exploring the dataset, cleaning it by addressing missing values, and creating visualizations to reveal distribution patterns of establishments throughout Melbourne. Additionally, I have attended all team and mentor meetings. In the fifth week, I assisted in hosting the team meeting and took responsibility for recording the minutes, ensuring smooth communication and documentation of our discussions.

Web Development Team

Name	Student ID	Contributions week 1-5
ABHISHEK CHILUKA	223046759	I joined the Chameleon - MOP web development team in the first week, focusing on frontend and design. I began by learning about website responsiveness and MongoDB to enhance the website's user-friendliness. I guided juniors in understanding and creating wireframes based on user requirements. I also redesigned the Case Studies page according to client needs and helped juniors

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		comprehend dark and light themes, selecting suitable colour schemes. I developed the frontend for these themes using Tailwind CSS and Next.js, incorporating a toggle button for seamless theme switching. Finally, I deployed the code via pull requests to the GitHub repository.
MIHIR ARVINDBHAI DOBARIYA	223535953	I attended all project meetings up until Week 5 and finished all of my tasks on time. I updated the 'About Us' page to match the Figma design, and my changes were accepted without any revisions. I also took the initiative to learn React.js and Node.js, which enabled me to make the necessary changes to improve the page's appearance and feel. I helped our team complete its work successfully by remaining engaged and learning on a continuous basis.
THAMASHA GALAHENA GALAHAHENA MUDIYANSELAGE	223043446	This trimester, I have led and contributed to the development and deployment of the MOP website, focusing on high-quality, functional, and user-friendly outcomes. Key achievements include setting up the Jenkins CI/CD pipeline, which has streamlined our build and deployment processes, and enhancing the UI/UX of the signup page, laying the groundwork for a seamless user experience. I've also been instrumental in guiding and mentoring the IaC team, recruiting members, and delegating work to them, ensuring they contribute effectively. My ongoing work includes integrating the signup functionality with the newly implemented MongoDB database and drafting the Terraform documentation for Infrastructure as Code (IaC) implementation. Additionally, I've actively participated in leadership and CI/CD meetings, contributing to strategic planning and task delegation, which has been crucial in aligning our project objectives with stakeholder expectations.
RADHA KRISHNA GAMPA	223937368	I joined the Chameleon company and MOP WebDev project as a junior in the design and frontend teams. I've participated in every mentor and sub team meetings, created wireframes for the licensing and privacy policy pages, worked on a dark theme webpage, and made pull requests to integrate these wireframes into the GitHub repository. I'm learning and willing to work on frontend tasks.
RAJAT GUPTA	222435572	Attended weekly team meetings and sub-team meetings. Discussed ideas for dark/light design. Made wireframe for Login page. Fixed Dark mode of Sign up page. Made a pull request on GitHub for weekly task.
SACHINTHA CHANUKA SHANTHADEWA JANGUGE	222625866	Over the past few weeks, I have been actively engaged in frontend MOP website, attending all key meetings, including the initial team and sub-team discussions, to gain a thorough understanding of our objectives. My focus has been on reviewing project documents to align with our goals, and I have consistently participated in weekly meetings to contribute to ongoing tasks. I successfully completed responsiveness for Signup, which has been a significant milestone in my work. I have also joined a sub-team and started working on the tasks assigned to me. My commitment remains strong as I continue to contribute to the project's success, leveraging my skills and staying aligned with the team's objectives.

Name	Student ID	Contributions week 1-5
MUHAMMAD SUBKTAGEEN AHMAD JANJUA	223723734	Over the past weeks, I have been working in both the frontend and the backend team of the MOP website, In which two tasks were assigned to me, one from the frontend team, In which I need to make the Contact Us page responsive and one from the backend team, In which I need to add the functionality of Contact Us Message form Page to save the data into the database. I have done both the tasks and make a pull request on the GitHub. Moreover, I have been attending the weekly meetings and been doing the tasks on the Ontrack.
UPEKSHA DILSHAN KARAPITIYA PATHIRANAGE	223656754	I attended the weekly meetings but missed a week due to work and for tasks I took the making privacy page task from the team planner. In the task of creating the Privacy Page, Me and my friend completed the entire page and uploaded the header and footer to the Pull Request. I held back on uploading the full page because it needed further refinement. Unfortunately, due to a miscommunication in the team task planning, the page wasn't published. However, I have the complete code as proof of my work. Also now I'm working on the Remaking the logging page task.
DANISH KUMAR	223629209	Being a sub-team leader for the Backend and CI/CD teams, effectively coordinating tasks and meetings to align with project objectives, working on improved team structure and communication, enhancing task efficiency. In terms of security, focusing on implementing robust measures and compliance protocols within CI/CD pipelines, crucial for ensuring secure deployment processes. Initiating task division and hosting mentor meetings have significantly improved productivity and decision-making. The ongoing documentation of security measures is also enhancing understanding and audit preparedness. Looking ahead, I plan to finalize and deploy the "Homepage Case Study Rendering," and actively mentor team members. These initiatives aim to enhance user engagement, optimize deployments, and foster a skilled, cohesive team environment, contributing to continuous project improvement.
SURAJ KUWAR	223183442	I enrolled in the Capstone Project at the beginning of Week 3. Due to scheduling conflicts, I watched recorded videos of the meetings I couldn't attend. I participated in a meeting where our group was formed, and leaders were assigned to different departments. I took on the role of leader for both the design and front-end teams. To streamline our work, I formed two separate groups—one for design and one for front-end—and conducted individual meetings for each. During these meetings, I addressed and cleared all queries, ensuring that everyone understood their tasks. I'm excited to begin working with both teams, especially focusing on designing the mobile view version. I have also completed the wireframe for the case studies page and worked on implementing dark mode in the front-end.
JIAQI LI	221105067	1. I completed wireframe design for home, forget pwd and OTP pages. 2.I finished redesign dark mode for homepage of Chameleon website. 3. I finished UI design for chatbot popup page. 4. I finished UI design for chatbot page.

Name	Student ID	Contributions week 1-5
JOSHEN SHEVIN MIHINDUKULASURIYA PATABEDIGE F	223793401	I took responsibility for creating the Privacy Page from our team planner. My friend and I completed the entire page, and I specifically focused on the CSS. We uploaded the header and footer to the Pull Request, but I held back on uploading the full page as it needed further refinement. Unfortunately, a miscommunication in our team task planning led to the page not being published. I'm collaborating with my friend on remaking the logging page task as well.
MINH KHOI PHAM	220189994	During past 4 weeks, I have completed my onboarding tasks with ongoing progress in working on front-end designs of the webpages as well as taking further improvement by working on front-end certificate of Meta to develop better skillset for the project on designing a well-organized, and secured front-end application for the webpages. I'm aiming to deliver real features to the project in the upcoming weeks.
MUHAMMAD AHMAD RAHMAN	222035605	1. Completed Wireframe design for About Us, Contact Us page. 2. Redesigned the dark mode for the Case Study page with the updated grid format for the use cases. 3. Attended the weekly meetings and the sub team meetings 4. Did pull requests in GitHub for the designs 4. I will be picking up more design tasks as well as a frontend task
SAITEJA RAVELLA	224013556	I have created wireframe diagrams for statistics and upload case study pages. I have re-designed the webpage design for dark theme. I am also actively participating in the weekly meetings of MOP WebDev and also sub-team meet. I also did the minutes/agenda for week 5 and week 6. I am learning reactjs for front-end.
TYLER SHEAF	221154888	1. I have completed the wireframe for upload page. 2. I have done a pull request for the about us wireframe onto GitHub. 3. I have attended weekly meetings and the sub team meeting. 4. I have done the dark/light page for about us designs.
CHAYA SHIV	221071557	Over the past few weeks, I've actively participated in all team and mentor meetings. I volunteered to contribute to both the front-end and back-end teams. I successfully completed my front-end task of implementing multi-language functionality for the signup page, and my pull request for this has been approved and merged. My upcoming backend task is to retrieve and display use cases from the database, which I will be working on in the coming weeks.
PRANJAL SINGH	218614477	Over the weeks, I have been actively guiding and supporting the juniors. I have attended the weekly team meetings, being vocal and actively participating and giving out suggestions where possible. I have helped creating new tasks for the front-end team to ensure everyone can contribute equally. I was assigned the task to redesign the statistics page for the MOP website, which I have achieved and added algorithms for filters and pagination helping out in navigation, and the overall responsiveness of the page along with the specified design requirements provided by the design team. Post that I have created a well-documented pull request for the task. I have also been actively upskilling on Next.js and Tailwind CSS through these weeks to be able to contribute properly towards the project.

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USMAN TARIQ	217034263	To improve the privacy page's visual coherence with the rest of the website, I've made some changes. To be more precise, I changed the font size to better fit the licensing page's readability and design. The goal of this modification is to enhance the user experience overall by giving these crucial legal papers a unified and expert appearance. We can improve readability and make sure that readers can quickly explore and understand the crucial information on both pages by coordinating the typography.
VENKATA RAGHAVA NAVEEN VEEDHULA	224099224	I have joined as a junior member of this project and actively participated in team meetings to discuss project details and strategies. My primary responsibility involved making necessary changes to the user case, ensuring alignment with the Figma design provided. I meticulously followed the design specifications to make the required updates, focusing on both functionality and aesthetics. After thoroughly testing the changes, I completed my part of the task and submitted a detailed pull request for review by the team, ensuring that all updates were clearly documented.
HOANG DUY VU	222461495	Over the past four weeks on the Chameleon project, I created and presented slides for the capstone onboarding, migrated and cleaned tasks from Trello to Planner, and posted a welcome message. I organized team meetings, created polls and reminders, completed task 2.1P for the MOP Web team, and hosted as well as took minutes for team meetings. I also developed a team allocation spreadsheet, cleaned up the repository, troubleshot GitHub setup issues for juniors, assigned members to sub-teams, hosted CICD meetings, reviewed pull requests, fixed bugs, updated the licensing page, and implemented code quality assurance and Docker image building for the CICD pipeline.
ADRIAN THILINA WEERASINGHE	222481445	During past 4 weeks, I created updated the onboarding checklist documents for the WebDev team, I made the welcome announcement as well as created and added the team members into the WebDev team channel, I took part in creating the agendas for CoM leadership and WebDev weekly meetings for the first 2 weeks, I hosted the first 2 weekly WebDev meetings, I migrated and cleaned tasks from Trello to Planner, I onboarded juniors, I added 36 new tasks into Planner, I created slides and presented during the 1st client meeting, I deployed the MOP website on Netlify, I calculated and presented the resources needed for chameleon web and MOP web to the company director, I connected the MOP website to MongoDB. I also assisted the juniors in their various queries regarding tasks, GitHub pull requests as well as weekly tasks, I also reviewed multiple pull requests.
NIPUN UDARA YAHATHUGODA BADALGE	223456323	Added a new api to get use case statistics from the mongo dB. Added a schema with basic use case information required to get statistics. Added a test case to validate the statistics retrieving functionality
AKSHIT SANJAY KAWA	223741844	Attended weekly team meetings and sub-team meetings. Discussed ideas for dark/light design. Made wireframe for Sign up page. Fixed Dark mode of Sign-up page. Made a pull request on GitHub for weekly task.

Name	Student ID	Contributions week 1-5
MOHAMMAD BEHBAHANI NIA	222514502	My role was in enhancing the front-end of the login web page. I started by fixing various CSS issues to improve the layout and responsiveness. To streamline the styling process, I integrated Tailwind CSS, which helped create a more modern and consistent user interface. I also redesigned the user input fields, transforming them from simple lines to more user-friendly input boxes, and improved the sign-up section on the login page for a smoother user experience. Additionally, I created my own branch, and merged my changes into the feature-login-user branch. I have attended regular meetings and chats with the team, where we discussed and refined our approach, ensuring that our efforts aligned with the project's goals.
ARMAN BAKHTIARIASL	220492498	Since joining the team in Week 5, I have been actively participating in meetings and focusing on deploying microservices using Kubernetes and Azure. My work has primarily involved Infrastructure as Code (IaC) with Terraform. I installed and configured Terraform on my machine to manage infrastructure through code, then utilized it to create and manage Azure infrastructure, including setting up a Kubernetes cluster. Regarding Azure Kubernetes Service (AKS), I created and configured a managed Kubernetes cluster in Azure using Terraform, which included setting up a resource group. I also installed Azure CLI and connected kubectl to the Kubernetes cluster. Finally, I published the Docker image to a container registry, integrated it with Kubernetes, and deployed the microservice to the production cluster.