COMPX527 – Secure cloud Application Engineering Group: Weather dashboard

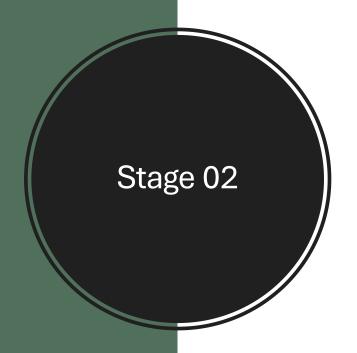
Group members : Brandon Li , Anjalika Sewwandi , Xueyun Li , Raina, Rita and Sanduni



Project Plan Aug8 - Aug15

Reviewer	Status	Due Date	Notes				
bl467823902@gmail	Done •	Aug 15, 2024	 ✓ Create GitHub Organization ✓ Create the Repository ✓ Push the Basic Node Application to the GitHub Repository ✓ Make Branches for Features 				
locklaskylin@gmail.com qinyun9371@gmail.com	Done •	Aug 15, 2024	 ✓ Make relevant Policies and configurations ✓ Design user features 				
Anjalika Sewwandi	Done •	Aug 15, 2024	 ✓ Create IAM Users for each group member(Set permission ,Provide the access credentials , Configure SSH access) ✓ Rita ✓ Rina ✓ Saduni ✓ Brandon 				
Sanduni Fernando	Not started •	Aug 15, 2024	☑ Implement CI/CD pipeline				
			We have divided our responsibilities and discussed the application development process.				

 Once Brandon creates the repository and pushes the <u>basic</u> application to Github, we will clone the application and start working on our features.

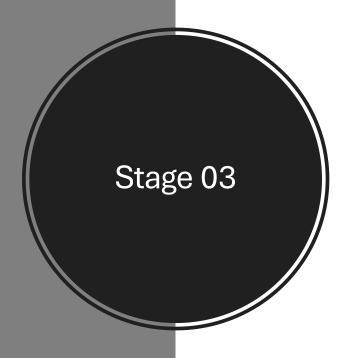




Project Plan Aug15 - Aug22

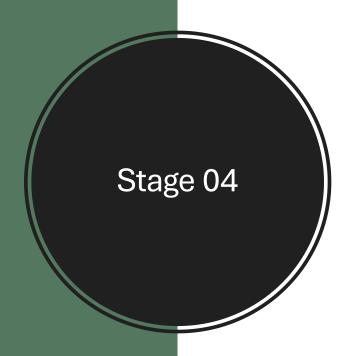
Reviewer	Status	Due Date	Notes					
bl467823902@gmail.com - Team Leader	Done •	Aug 22, 2024	☐ Leaflet (Map, <u>database</u> and <u>openstreetMap</u>)☐ Designing the page					
locklaskylin@gmail.com	Done -	Aug 22, 2024	 ✓ Research AWS Cognito capabilities and best practices ✓ Set up AWS Cognito User Pool and configured the hosted UI 					
qinyun9371@gmail.com	Done •	Aug 22, 2024	 ☑ Explore the Open-Meteo API, understanding its parameters and output to efficiently fetch real time weather data. ☑ Identify and integrate a secondary API to retrieve geolocation data bas on city names. 					
Anjalika Sewwandi	Done •	Aug 22, 2024	☐ Create IAM Users for each group member(Set permission ,Provide the access credentials , Configure SSH access)					
Sanduni Fernando	Done •	Aug 18, 2024	Set up AWS SNS. Setup SNS to send notifications with relevant configurations					
			Key takeaway We discussed following ■ How will we get the latitude and longitude based on the user's city? We concluded that the best approach is to use an APLUse Geocoding APL Developer Documentation Geoapify to get the latitude and longitude of the location ■ We discussed how the entire system functions when all individual components are integrated.					





Project Plan Sep5 - Sep12

Reviewer	Status	Due Date	Notes
bl467823902@gmail.com	In progress •	Sep 12, 2024	 □ Designing the page ☑ Leaflet (map, database, and the open street map) □ Combine codes
locklaskylin@gmail.com	Done •	Sep 12, 2024	 ☑ Identified limitations of the hosted UI and planned migration to a custom solution ☑ Designed and developed a custom authentication interface for registration login and update ☑ Implemented front-end validation for user input ☑ Migrated from hosted URL to custom UI, updated authentication methods to work with the custom UI
qinyun9371@gmail.com	Done •	Sep 12, 2024	 ✓ Implement a method to dynamically receive and process user-specific city information from other team members as it becomes available. ✓ Update the frontend to accommodate the real-time display of weather and geolocation data.
Anjalika Sewwandi	In progress •	Sep 12, 2024	☐ Create IAM Users for each group member(Set permission ,Provide the access credentials , Configure SSH access)
Sanduni Fernando	In progress •	Sep 12, 2024	 ✓ Implement CI/CD pipeline ✓ Use AWS Beanstalk ✓ Set up HTTPS ✓ Authenticate requests using a header or something like that
			Key Takeaway We discovered the AWS service Elastic Beanstalk, which seems easy to

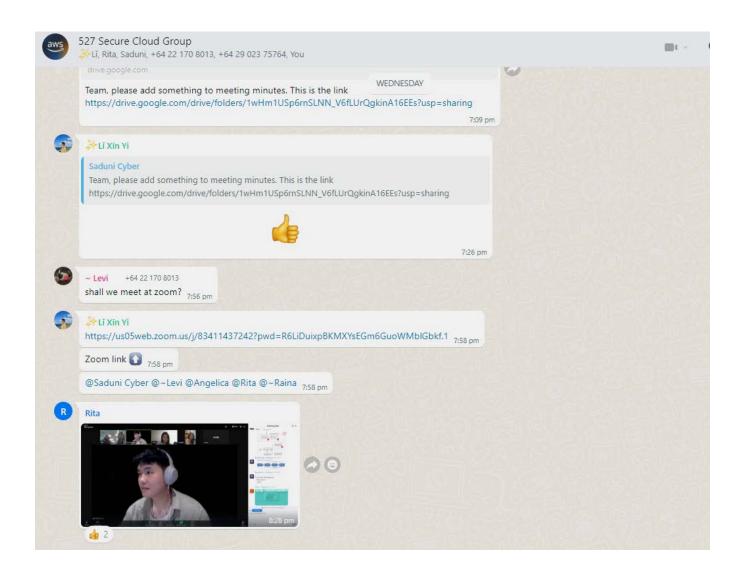




Project Plan Aug22- Step 16

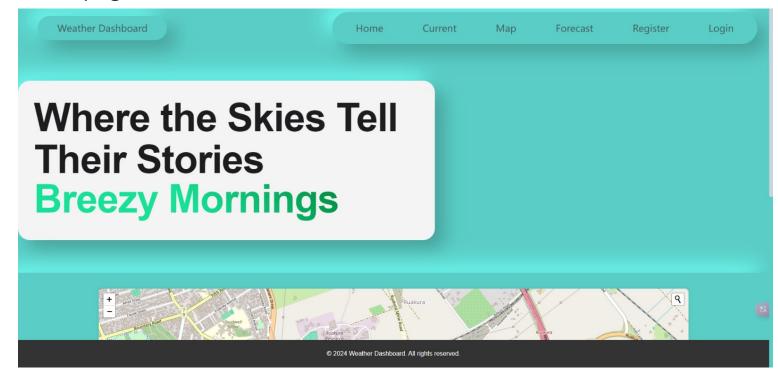
Reviewer	Status	Due Date	Notes
bl467823902@gm - Team Leader	Done •	Sep 16,	 ✓ Leaflet (Map, database and openstreetMap) ✓ Designing the page ✓ Github version controls ✓ Combine codes (all the members)
(locklaskylin@gmai)	Done •	Sep 16,	 ✓ Research AWS Cognito capabilities and best practices ✓ Set up AWS Cognito User Pool and configured the hosted Ull ✓ Registration, Login, preference update ✓ Subscription preference for notifications
qinyun9371@gma	Done •	Sep 16,	 ☑ Explore the Open Meteo API, understanding its parameters and outputs to efficiently fetch real-time weather data. ☑ Identify and integrate a secondary API to retrieve geolocation data based on city names.
Anjalika Sewwandi	Done •	Sep 16,	 ☑ Create IAM Users for each group member(Set permission ,Provide the access credentials) ☑ Creating the final powerpoint and the report
Sanduni Fernando	Done •	Sep 16,	 ✓ Setup SNS to send notifications with relevant configurations ✓ AWS Elastic beanstalk ✓ Steup CI/CD using AWS codePipeline

Project meeting progress





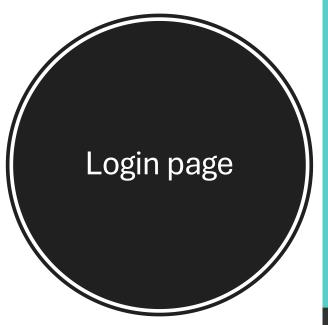
Main page





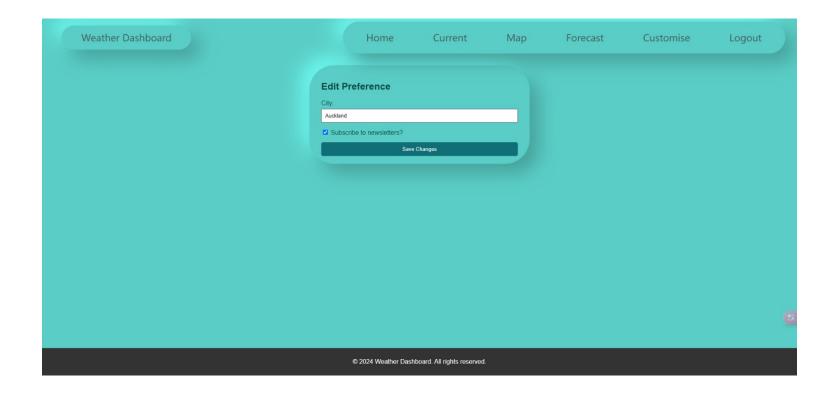
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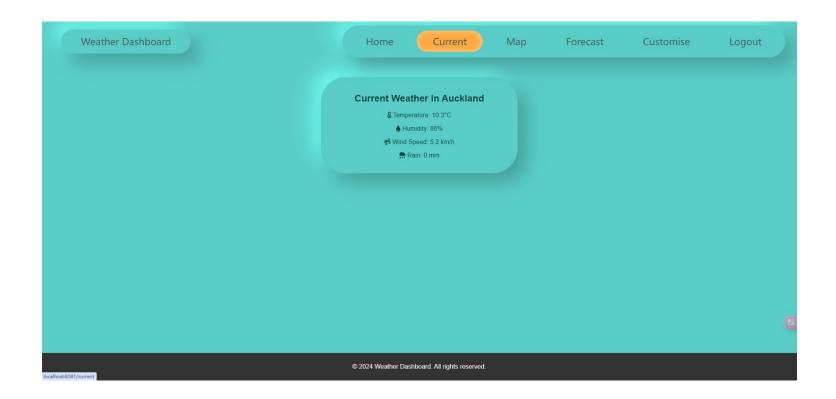


Weather Dashboard		Home	Current	Мар	Forecast	Register	Login
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	bl467823902@gmail.co	m					
	Password:			-			
	Forget your password	1? Reset it here.					
		Login					

Location search Stage 01



Stage 02 : view the current weather



Stage 03 : Drop location

