



SPRINT 4

SUBMITTED BY

TEAM XOUTHOS

SPRINT 4 SUMMARY

In this sprint, Team Xouthos has focussed on heatmaps and overlays. Heatmaps were read and created in the presentation layer and business logic layer. Overlays were created and updated in the presentation layer. Ideally, we would achieve 46 points from this sprint which leaves us with 6 points in the bank. We also have 15 points from polyline implementation in Sprint 3 as carry forward points into this sprint. The coders have confirmed validation from the Product Owner about their code implementation and achieving the target of 20 points each for their respective work. The Scrum Master and Promote Person have worked from the code provided by the coders with the understanding that the required complexity for the sprint has been achieved. The Faculty Strike information and its effect on the student performance is requested to be considered by the Product Owner for Sprint 4, as the uncertainty about the future created a lot of anxiety and could possibly reflect in the performance based on the team member's personal ability to cope with situations beyond their control.

1. CURRENT VISION STATEMENT

To increase the average user's understanding to know more about the number of power plants are present across the globe, information window to showcase the major details associated with the power plant selected, create markers to update the new power plant identified, create polylines, heatmaps and overlays to represent the countries which are pioneers based on the primary fuel used.

2. SPRINT 4 ROLES

- Scrum Master – Mohamed Omer Airaj
- Coder 1 – Aashlesha Devlekar
- Coder 2 – Jennifer Abraham White
- Promoter – Kokilavani Thiyagarajan

3. CODE DEVELOPMENT IN SPRINT 4

Database Layer	Business Logic Layer	Presentation Layer
-----	Create and Read Heatmaps (10 + 3 = 13 Points) 3 points to be used in Sprint 5	Create and Read Heatmaps (10 + 3 = 13 Points) 3 points to be used in Sprint 5
-----	-----	Read and Update Overlay (20 Points)

4. **GPS FOR CURRENT SUBMISSION**

- ✓ Business Logic Layer: Added Create and Read Heatmaps **(by Aashlesha)** : 13 points
- ✓ Presentation Layer: Added Create and Read Heatmaps **(by Aashlesha)** : 13 points
- ✓ Presentation Layer: Added Read and Update Overlay **(by Jennifer)** : 20 points

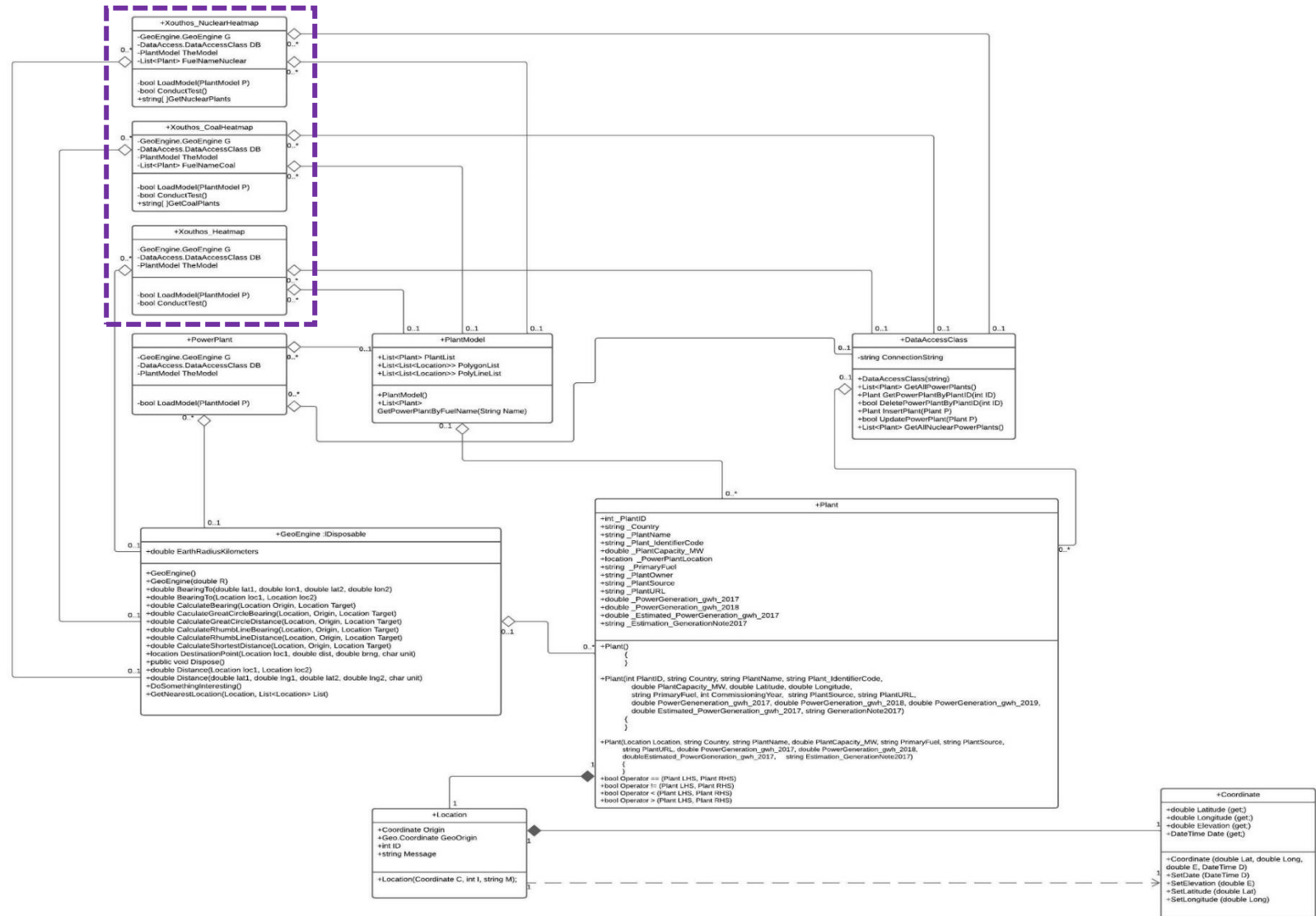
5. **SPRINT 4 ROADMAP**

Task	Status
Business Logic Layer Heatmaps (Read)	Completed
Business Logic Layer Heatmaps (Create)	Completed
Presentation Layer Heatmaps (Read)	Completed
Presentation Layer Heatmaps (Create)	Completed
Presentation Layer Overlays (Read)	Completed
Presentation Layer Overlays (Update)	Completed

6. **PRODUCT BACKLOG**

Task	Sprint	Points Projection
Database layer route	5	15
Business layer route	5	15
Presentation layer route	5	15
		Total 45

7. UPDATED UML DIAGRAM: UML 4.0



SPRINT 5: LOOKING AHEAD

8. UPCOMING SPRINT 5 ROLES

- Scrum Master – Aashlesha Devlekar
- Coder 1 – Kokilavani Thiyagarajan
- Coder 2 – Mohamed Omer Airaj
- Promoter – Jennifer Abraham White

Sprint-3 Retrospective (Will be carried out by Sprint-5 Scrum Master):

Team Xouthos was asked to implement the task provided by the Product Owner after evaluating the Sprint 3 on March 18th to solve the problem of webpage taking long time to load in the upcoming Sprint 4. Since the team have already finished working on the Sprint 4, Xouthos has raised the requestation to the Product owner for addressing the abovementioned issue before the last sprint 5 after having a detailed discussion during class hours to get rid of the issue.

9. SPRINT PRODUCT ROADMAP

Task	Status	Points Projection
Continuing Building HTML	To do	
Continue Styling CSS	To do	
Database layer route	To do	15
Business layer route	To do	15
Presentation layer route	To do	15
		Total 45

10. RELEASE PLAN – GROUP DATES

Completion of the Sprint 5 increments is set for 04/01/22. The window for completion begins 03/21/22.

Sprint 5 Completion Date: 2nd April 2022

Power plant fuel type display options:

- ☐ Biomass
- ☐ Coal
- ☐ Cogeneration
- ☐ Gas
- ☒ Geothermal
- ☐ Hydro
- ☐ Nuclear
- ☐ Oil
- ☐ Other
- ☐ Petcoke
- ☐ Solar
- ☐ Storage
- ☐ Waste
- ☐ Wave and Tidal
- ☐ Wind

PLANT COUNT BY FUEL TYPE (N = 34,936)

Fuel Type	Plant Count
Wave and Tidal	1
Storage	2
Cogeneration	3
Hydro	10
Other	15
Geothermal	30
Nuclear	45
Waste	100
Biomass	125
Oil	150
Petcoke	168
Coal	180
Gas	230
Wind	298
Solar	544
Total	34,936

HEATMAP

