

# Progress Presentation-I

e-Yantra Summer Internship-2023  
32 - Virtual Museum: 3D Metaverse Platform

Aarnav Sangekar  
Sai Ram Senapati  
Mentor: Deepa Avudiappan

IIT Bombay

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## Virtual Museum: 3D Metaverse Platform

- Develop a 3D website using three.js which mimics the experience of a physical event.
- The website includes virtual rooms, lobby, infodesk, networking zone and exhibition booths.
- The platform needs to adapt to multiple events with strong backend support.
- 3D Website for e-Yantra events
- Source Code with documentation - GitHub
- Project Report

# Overview of Task

Progress  
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Overview  
of Project

Overview  
of Task

Task Ac-  
complished

Future  
Plans

Thank You

Task No.	Tasks	No of Days to Complete.
1	Concept Generation of Tasks (and its layout) around <ul style="list-style-type: none"><li>- Explore and Visualise the different 3D websites available online</li><li>- Learn Three.js, Code framework</li><li>- Research paper on virtual events - Summary</li><li>- Comparison chart on various available metaverse and 3D event pages</li><li>- Existing 3D websites - wireframe [cyark, lebronjames]</li></ul>	10
2	Assignment - Load a 3D model on a webpage and change camera position by mouse/keyboard events.	2
3	Brainstorming Sessions with e-Yantra Team on Design and Layout	
4	Design the e-Yantra 3D environment on Figma	2
5	Web project setup	TBD
6	Create the exhibition space	TBD
7	Authentication and Backend Setup <ul style="list-style-type: none"><li>● Student and Admin</li><li>● Registration</li></ul>	TBD
8	Documentation, Teaching Material (opt) and Report	3

# Task Accomplished

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- 1 Modelling entire Museum Corridor space with specific positions and frames for exhibitions
- 2 Modelling Pedestals and lighting for the model exhibitions
- 3 Dynamic Generation of Lobby/Corridor space
- 4 Dynamic Generation of Model Viewing Space
- 5 Scrolling through animation for lobby
- 6 Scrolling through animation for Model Viewing Space
- 7 Modified schema to store Exhibition Entries along with separate artifacts for each entry
- 8 Made a new landing page
- 9 Designed Upload page

# Future Plans

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- 1 Next we want to render individual videos for each model. The video and model show side by side in a window.
- 2 We want to change the network page to a historical blog page. On this page, all the model descriptions will come with the poster of the model.

# Thank You

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THANK YOU !!!