

Islamic University of Technology

Department of
Computer Science and Engineering

Meeting Report

Date : 8 Sep, 2023

SWE 4304
Software Project Lab

Team Voyager

Adib Sakhawat . Takia Farhin . Tahsin Islam

Meeting Attendees

- Syed Rifat Raiyan (supervisor)
- Adib Sakhawat
- Takia Farhin
- Tahsin Islam

Agenda

1. Review of Project Modules
2. Functionalities Discussion
3. Algorithm Selection
4. Next Steps and Timeline

Meeting Highlights

1. Project Modules

We discussed the six modules that are integral to our math library project:

- Matrix Module
- Coordinate Geometry Module
- Number Conversion Module
- Trigonometry Module
- Basic Module
- Vector Module

2. Functionalities Discussion

- In the Trigonometry Module, we agreed to implement trigonometric functions using the Taylor series method.
- For matrix multiplication within the Matrix Module, we have decided to employ the Strassen algorithm for efficient computation.
- In the Coordinate Geometry Module, we not only intend to calculate direct distances but also include additional distance metrics such as Minkowski distance, cosine distance, Manhattan distance, and Chebyshev distance.
- The Number Conversion Module will accommodate user-defined decimal points and decimal places for precise conversions.

3. Algorithm Selection

During the meeting, we evaluated and selected the appropriate algorithms for specific tasks within the modules. This strategic decision will enable us to optimize the performance and accuracy of our math library.

4. Next Steps and Timeline

We outlined the key action items to be executed before our next meeting, scheduled for September 14, 2023. These include:

- Commencing the implementation of selected algorithms.
- Ensuring proper documentation for code transparency.
- Assigning responsibilities to team members.
- Monitoring project progress to meet the established timeline.

Conclusion

In conclusion, our meeting on September 8, 2023, was productive and yielded valuable insights into the development of our math library. We have identified the core modules and functionalities, chosen appropriate algorithms, and established a clear path forward. As we approach our next meeting on September 14, 2023, we remain committed to delivering a project proposal that aligns with our project objectives.

Meeting minutes recorded by Adib Sakhawat.