

FIRST WEEK

21.01.19: Monday

Interaction with Cardiologist- Dr. Narayana Murthy N- Sagar Hospitals- DSI

Interaction with Physiotherapist- Dr. Srihari Sharma K.N- Department of Physiotherapy-DSU

22.01.19: Tuesday

Second interaction with the Cardiologist at Sagar Hospitals, DSU

Visit and interaction at rehabilitation centre- SuVitas, Domlur

23.01.19: Wednesday

Literature review- IEEE papers on Cardiac rehabilitation, home based systems, Kinect based systems.

24.01.19: Thursday

Comparative study of technologies needed for the project- MongoDB vs MySQL

Comparative study of Unity vs Unreal Engine

SECOND WEEK

28.01.19: Monday

Audio transcription of interaction with Physiotherapist.

Made presentation/slides for final project idea presentation

29.01.19: Tuesday

Final project idea presentation

30.01.19: Wednesday

Study of Visual Studio and implementation of basic with .NET

Study of Unity 3D

31.01.19: Thursday

Worked on abstract version 1.

Study of files and file extensions.

THIRD WEEK

04.02.19: Monday

Installation of Unity 3D and learning how to work with it.

Worked on synopsis version 1.

05.02.19: Tuesday

Study of MongoDB and NoSQL type of databases.

The following are some of MongoDB benefits and strengths:

- **Dynamic schema:** As mentioned, this gives you flexibility to change your data schema without modifying any of your existing data.
- **Scalability:** MongoDB is horizontally scalable, which helps reduce the workload and scale your business with ease.
- **Manageability:** The database doesn't require a database administrator. Since it is fairly user-friendly in this way, it can be used by both developers and administrators.
- **Speed:** It's high-performing for simple queries.
- **Flexibility:** You can add new columns or fields on MongoDB without affecting existing rows or application performance.

Worked on synopsis version 2

06.02.19: Wednesday

Worked on abstract version 2.

Installation of MongoDB

07.02.19: Thursday

Learnt how to create collections, CRUD operations on databases in MongoDB

Learnt how to work with CRUD operation with ASP.NET MVC using MongoDB. MongoDB provides a driver called mongocsharp driver which we need to download and install from NuGet Package Manager into application to connect to MongoDB database. It gives a basic idea of how to use database, how data is stored, and how we can pull data from the database as per our needs.

	UNITY	UNREAL
Kinect V2 Compatible	Microsoft Officially released Kinect V2 Plugin	User-made plugins still in development for UE4
Hardware requirement	Unity can run on low spec system and still make good games	Unreal requires high spec system for good games
Cross Platform	Windows, Mac, Wii, iPhone,iPad, Android, PS3, Xbox, Xbox 360, Web Applications	Windows, Mac, Wii,iPhone, iPad, Android, PS3, Xbox, Xbox 360, Web Applications
Programming/Scripting	C#, JavaScript, Boo	C++
Stability	Rarely crashes	Crashes often
Learning Curve	Very User friendly and easy to understand	Difficult to understand User interface, however much documentation available