**SUMMARY MINUTES OF MEETING ON THE PROJECT TITLED ‘DATABASES AS A TOOL FOR HISTORICAL SIMULATION**

* **MEETING DATES** (20/2/2024, 27/02/2024, 5/03/2024. 12/03/2024, 13/3/2024, 19/03/2024, 26/03/2024, 28/03/2024, 03/04/2024)
* **Time:** (1:00 pm – 1:30 pm)
* **Location**: (University of Dundee, Queen Mary Building, Office Number: 2.21)
* **Attendees:**
  1. George Bamikole Tunde
  2. Iain Murray

**Agenda:**

1. Weekly Project Update
2. Supervisor’s review, Feedback and further guidance /Feedback from Project Student
3. Itemisation of required Next Steps and Action Items

**Minutes of Meeting:**

1. **Week 1**

**Review of Project Requirements:**

* + Iain Murray explained in detail the requirements of the project and expectations to be catered for. Not only this but details of several historical events, including the various objects and actions involved if the simulation were to be done, are also explained.
  + Several historical events with online links to where they can be accessed were emailed for further review and likely selection for simulation based on assessment of available materials.
  + A draft of the required historical simulation was sketched to strengthen understanding project requirements.
  + The need to develop a project Gantt chart for adequate project management was buttressed.

1. **Feedback from Project Student:**
   * George expressed satisfaction with the explanation and promised to investigate the provided historical events to select a suitable one for simulation subject to data availability.
   * Furthermore, the effort will be expedited to produce and submit the Gantt chart without delay.

**Week 2**

**Project Progress Update:**

George presented the prepared Gantt Chart. He mentioned the challenges encountered with getting data and the choice of MySQL as the database to use for the simulation.

**Feedback and Guidance from Supervisor:**

Iain Murray explained that data can be obtained from ship log records when naval engagements are been simulated. Also, information on various object locations can be easily obtained from historical maps.

The Gantt chart produced was approved and seen as addressing the project management requirements. However, the need to work on the project software quickly was stressed.

Also, the need to look at generic fields that cut across historical events for use in the simulation was expressed.

The need to produce the database schema design and user interface and implement core features to give users a good simulation experience was mentioned.

**Action Items:**

George: Review ship log records and historical maps for the required data.

George: Decide on the programming language framework you want to use to develop the simulation software.

George: Create the database required for simulation from gathered data in the AWS RDS Cloud.

**Week 3**

**Project Progress Update:**

George presented the prepared data from the battle of Jutland for use in the historical simulation. JavaScript was mentioned as a suitable programming language for the simulation project. The Database was created in the AWS cloud; however, the table generated could not be moved to the cloud database.

**Feedback and Guidance from Supervisor:**

Iain Murray corrected the table format used for the database to reflect significant occurrences that cut across all historical events. He also explained the process of transferring data using the MySQL workbench. He buttressed the need to study the use of Google API to develop the map application appropriately. He provided a video tutorial on using Google APIs in carrying out the project.

**Action Items:**

George: Review the tables created.

George: Move the gathered data to the AWS Database in the cloud.

George: Commence work on the map application and bring up a draft software for testing.

**Week 4**

**Project Progress Update:**

George presented the formatted tables and showed evidence of moving the tables created to the database through MySQL Workbench. However, the map application software could not be shown due to challenges with the software development process.

**Feedback and Guidance from Supervisor:**

Iain Murray expressed satisfaction with the tables moved to the cloud. However, he stated that the bulk of the job is the ability to display the final product, which is the required application,

**Action Items:**

George: Conduct extensive study and work on developing the project software for simulation purposes.

**Week 5**

**Project Progress Update:**

George presented a map application, which was done using the JavaScript Google API

**Feedback and Guidance from Supervisor:**

Iain Murray expressed satisfaction but stated that the presented software needs a play button or a slider that allows users to interact with the simulation. Also, the ability of people with varying degrees of technical expertise to issue queries through the map’s interface was stated. Also, more historical events need to be loaded on the software.

**Action Items:**

George: Load more historical event

George: Update the application to allow users to interact with it adequately.

**Week 6**

**Project Progress Update:**

The previous simulation could not be displayed again as issues were experienced with the visualisation. However, another historical event that could be simulated was brought up.

**Feedback and Guidance from Supervisor:**

Iain Murray expressed displeasure with the barrier experienced; he stated the need for the backup of data correctly and the need to get a better system as the system used by the project student was malfunctioning. However, the second satisfaction stated that the presented software needs to have a play button or a slider that allows users to interact with the simulation. Also, the ability of people with varying degrees of technical expertise to issue queries through the map’s interface was stated. Also, more historical events need to be loaded on the software.

**Action Items:**

George: Load more historical event

George: Update the application to allow users to interact with it adequately.

**Week 7**

Project Progress Update:

Streamlit, a Python framework, was used to carry out the simulation. Two historical events were loaded. However, a play button could not be added to the software to achieve simulation of historical events.

**Feedback and Guidance from Supervisor:**

Iain Murray expressed satisfaction with the work. However, he stated that a drop-down menu from where users can select Key events and see the Key Event notes is needed. Furthermore, if it is difficult to include the play button in the simulation, a time-based slider should be used.

**Action Items:**

George: Include a drop-down bar.

George: Include a play button or a time-based slider.

**Week 7**

**Project Progress Update:**

A time-based slider was included.

**Feedback and Guidance from Supervisor:**

Iain Murray expressed satisfaction, okayed the work for presentation, and requested the commencement of the project write-up.

**Action Items:**

George: commence project write-up and bring up a draft for review.

George: Include a play button or a time-based slider.

**Week 8**

**Project Progress Update:**

The project write-up was presented for review.

**Feedback and Guidance from Supervisor:**

Iain Murray looked into the project and made important corrections.

**Action Items:**

George: effect correction.

**Week 9**

**Project Progress Update:**

The project poster and the corrected project were presented.

**Feedback and Guidance from Supervisor:**

Iain Murray corrected the project poster and looked.

**Action Items:**

George: effect correction.