

Time Table Visualization Meeting Minutes

Date: 12/08/2023

Time: 5:45 PM

Via: Zoom platform

Attendees:

- Thimali Fernando - AS2019352 (Group Leader)
- Nipuni Opatha - AS2019470 (Group Leader)
- Dinithi Hewawasam - AS2019373
- Sandeepani - AS2019529
- Hansi Nawagamuwa - AS2019467
- Ishara Wijayaratne - AS2019579
- Denali Joseph - AS2019404
- Tharushi Kaveesha - AS2019413
- Oshini Kulasekara - AS2019420
- Upeksha Herath - AS2019370
- Thilina Withanage - AS2019584

Meeting Minutes:

- The meeting commenced at 5:45 PM.
- Thimali started the meeting off by asking the group members to present their group time table visualizations and discussing the new features added in each dashboard.
- First the 4 groups shared their screens and presented their group time table visualizations to all other attendees.
- Then the discussion started regarding which plots and features are best suited to be included in to the final time table visualization dashboard.
- First Denali questioned what changes to the interface of the dashboard should be made and all attendees agreed to have the panel selection bar at the top of the dashboard instead of having it as a sidebar panel. Then Thimali was assigned the task of changing the interface of the final time table application.
- Then by the suggestion of Tharushi and Oshini and by the agreement of all attendees it was decided to include Oshinis' cluster bar chart for Distribution of lectures by day plot and Nipunis' tree map for Number of lectures in each location plot in the overview panel. Thereby Nipuni was assigned to include the 2 plots into the overview panel.
- Then with the agreement of all members, Sandeepanee was assigned to update the KPI boxes in overview panel with the interactive feature of 'Displaying the courses in each year in a table upon selecting the KPI boxes' from their group visualization.
- For the course view panel, Hansi suggested that including 2 panels inside the course view panel was more appealing and therefore Dinithi was given the task of adding the

second panel 'Course' inside the course view panel. For the first panel 'Time table', it was suggested to keep the time table plot from senior dashboard as it is.

- Hansi suggested that for the Student View panel, Student Availability plot should be included and Nipuni raised queries about the plot that should be included and the choice between a line graph and a grid plot. The team favored the grid plot. Therefore Nipuni was assigned to include student view panel to the final dashboard.
- Thimali suggested including a heat map to visualize the student availability but Nipuni explained that a new dataset should be created for that task denoting the availability status of students following each subject, day wise and time slot wise and everyone agreed that with the time constraints it would be quite difficult task therefore that idea was deemed not feasible.
- Then Ishara presented the new features included in the lecture hall panel in their group time table visualization. Everyone agreed to include the feature of changing the Locations included in the Location tree map according to the used input of desired capacity. Sandeepani questioned whether including the feature of 'lecture halls with at least one vacant time slots in that day' is useful as almost all lecture halls in the existing dataset had at least one vacant time slot. But Ishara suggested to include that feature as in future datasets it may not be the case. And therefore Ishara was assigned to include the Lecture hall panel in the application.
- Thimali suggested to include a separate panel as lecture hall availability and include the heat map along with KPI boxes for busiest day, Number of lectures per week etc. and Ishara suggested to include a KPI box for hall description. Tharushi and Oshini suggested including a 'Number of lectures per day at location: ' plot as they have included it in their group visualization by utilizing Excel data columns. Thimali mentioned that she developed an R coding to create the dataset needed for that task and therefore the task of including that panel to final dashboard was assigned to Thimali.
- Then suggestions were made regarding the input data panel and the limitations of methods used by the members were discussed. Thilina highlighted the issue of the app terminating due to incorrect data file uploads. Ishara suggested including a refresh button for data management. Then upon further discussions the team recognized the complexity of implementing the refresh button and therefore Upeksha volunteered to address the issue and provide a solution. In the meantime, it was suggested to include Thilana's input panel as a practical approach to manage data uploads.
- Sandeepani proposed adding a login page, however, considering its potential impact on user-friendliness, the team collectively decided against its inclusion.
- Finally Denali expressed concern about app development with available data and the potential for later incorporating missing data once available for all departments.
- Nipuni questioned the ability to develop R codes for creating the datasets needed for the visualization inside the app using the CourseView Data file itself and thereby reducing the number of data files needed for updating the application. After discussing the subject Nipuni volunteered to create the necessary R codes for the task.
- Finally Denali, Hansi volunteered to clean the collected datasets.
- The meeting concluded at 7:30 PM