University of Windsor

Course Name
COMP8967-1-R-2023F	Internship Project I

Document Type
P3: Summary Report (2nd Office hours)

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Submitted On
October 27, 2023

One Drive link for Files Referred for this work
[One Drive Link for Files](#)

Instructions

This report is to summarize your work for the first two weeks and the meeting with the business. Consider the period between October 7 and October 20.

PART A

> 1. Sprint Goals and Scope (10)
>   a. Sprint Goals: Clearly state the goals and objectives set for the next sprint.
>   b. Scope: Define the scope of work that was planned for this sprint.

Sprint Goals: -

Well, we had designed sprint goals based on the progress made during Sprint 1 and 2. Below are the Sprint 3 goals:

Sprint Goal	Primary Objective
Complete user authentication implementation connecting sign up and sign in pages to Firebase.	Focuses solely on finishing user authentication tasks.
Build our core data pipeline functionality to accept user input, conduct calculations, and store results.	Encompasses data input, processing, and storage tasks.
Develop initial data visualization component to display output charts.	Covers the visualization of outputs.

After prototype designing and based on the suggestions incorporated from sprint 2 call with Kyle, the few listed goals are implementing user authentication flows, capturing, and storing input data, processing the data, and performing calculations, visualizing the output, and displaying user-specific results on the front-end. Together these high-level goals encompass the key outcomes defined in the tasks for the sprint.

Sprint Scope: -

During this sprint, we primarily focus on building an interactive web application prototype to capture user data, conduct calculation and analysis, and display results and recommendations. More Importantly, core features will include user authentication, data storage, scoring algorithms, data mapping and associations, Json data structuring, dynamic form elements, and linking front-end with back-end services. The prototype will allow demonstrating core functionality and gathering user feedback to further refine requirements for the next project iteration.
Scope will be carried out in the following manner:
➢ Integrating Signup and login page with the home page of application so user can navigate to home page only after login
➢ Integrating JavaScript logic with step 1, step 2 and step 3 of the application so the recommended scenario can be evaluated.
➢ The logic to convert descriptive values to numeric ones must also be integrated into JavaScript logic to calculate dimensionless score.
➢ Generate the graphs based on final values in step 3 for the recommended scenario and category values.

The progress on tasks made so far can be verified from our Team GitHub Repository and were presented to GA (Ms. Nahid Abdolrahmanpour Holagh) on October 27, 2023.

GitHub Link - https://github.com/Manjinder-Singh/COMP8967-1-R-2023F-Internship-Project-I

Jira tool is used to create and update progress.
Jira Board Link - https://ip19.atlassian.net/jira/software/projects/SCRUM/boards/1

2. Sprint Progress (25)
   a. Work Completed: Provide a detailed list of tasks, activities, or features that were completed during the sprint.
   b. Work In Progress: Mention any tasks or items that are still in progress or pending.
   c. Work Not Completed: If there are tasks that were not completed, explain the reasons and any mitigation strategies.
   d. Contribution by each member.

a) WORK COMPLETED

Sprint 2 – 10/07/2023 to 10/22/2023 (Reading Week Excluded)
Primary Focus – Present Main Screens to the Business Stakeholder i.e.,
Kyle Bassett
Backlog – NA

Common Attributes of Tasks:
Issue Type – Task
Status – Done
Project Key – Scrum
Project Name – My Scrum Project
Project Type – software
Priority – Medium
Resolution – Done
Sprint – Scrum Sprint 2
Custom field (Story point estimate) – 2
Status Category – Done
Creator – Harbhajan Singh
Creator Id - 5aba80372235812a623479f3

Issue key	Summary	Issue id	Issue Type	Status	Project key	Project name	Project type	Priority	Resolution	Assignee
SCRUM-21	1. Creation of input table	10020	Task	Done	SCRUM	My Scrum Project	software	Medium	Done	dhrumillimbad
SCRUM-22	2. Creation of Scenario Input table	10021	Task	Done	SCRUM	My Scrum Project	software	Medium	Done	dhrumillimbad
SCRUM-23	3. Mapping of column name from Step 1 to Step 2	10022	Task	Done	SCRUM	My Scrum Project	software	Medium	Done	dhrumillimbad
SCRUM-24	4. Map 'scenario' in step 2 for the calculation	10023	Task	Done	SCRUM	My Scrum Project	software	Medium	Done	dhrumillimbad
SCRUM-25	5. Create a Sign In Page.	10024	Task	Done	SCRUM	My Scrum Project	software	Medium	Done	Ajwad Maahi
SCRUM-26	6. Create a Sign up Page.	10025	Task	Done	SCRUM	My Scrum Project	software	Medium	Done	Ajwad Maahi
SCRUM-27	7. Create Authentication with Firebase	10026	Task	Done	SCRUM	My Scrum Project	software	Medium	Done	Karan Vishavjit
SCRUM-28	8. Create a until function that reads from JSON and calculates the linear score and dimensionless score.	10027	Task	Done	SCRUM	My Scrum Project	software	Medium	Done	Karan Vishavjit
SCRUM-29	9. Improve the over all layout of the application.	10028	Task	Done	SCRUM	My Scrum Project	software	Medium	Done	Manjinder Singh
SCRUM-30	10. Learn plotly js. Read values form JSON and generate a graph.	10029	Task	Done	SCRUM	My Scrum Project	software	Medium	Done	Harbhajan Singh

Table 1: Sprint 2 - Task List (Done)

	A	B	C	D	E	F	G
1	Issue key	Assignee Id	Created	Updated	Last Viewed	Resolved	Description
2	SCRUM-21	712020:e97dd1a2-dc95-47bb-86b2-4de5da0a9121	2023-10-08 23:13	2023-10-22 9:36	2023-10-11 23:39	2023-10-22 9:36	Description: Create Input Table; a table with 5 columns and 1 default row. When the user clicks 'Add Row' a new row appends to the table. Each row has a 'Delete' button and upon clicking that the targeted row gets deleted. Save data in JSON format.
3	SCRUM-22	712020:e97dd1a2-dc95-47bb-86b2-4de5da0a9121	2023-10-08 23:14	2023-10-22 9:36	2023-10-08 23:22	2023-10-22 9:36	Description: Create Scenario Input Table; a table with 2 columns and 1 default row. When the user clicks 'Add Row' a new row appends to the table. Each row has a 'Delete' button and upon clicking that the targeted row gets deleted. Save data in JSON format.
4	SCRUM-23	712020:e97dd1a2-dc95-47bb-86b2-4de5da0a9121	2023-10-08 23:15	2023-10-22 9:36	2023-10-08 23:23	2023-10-22 9:36	Description: Map the 'Name' column from first table into the 'Step 2' table such that they appear as Table Header.
5	SCRUM-24	712020:e97dd1a2-dc95-47bb-86b2-4de5da0a9121	2023-10-08 23:17	2023-10-22 9:37	2023-10-08 23:23	2023-10-22 9:37	Description: Map 'Scenario' into 'Step 2' table as first values of rows. Later when the user fills all the values, print store the
6	SCRUM-25	70121:53eb6702-171a-48be-b0b2-cbad700c7c77	2023-10-08 23:17	2023-10-22 14:14	2023-10-08 23:23	2023-10-22 14:14	Description: Create a Sign In Page.
7	SCRUM-26	70121:53eb6702-171a-48be-b0b2-cbad700c7c77	2023-10-08 23:18	2023-10-22 14:14	2023-10-08 23:23	2023-10-22 14:14	Description: Create a Sign up Page.
8	SCRUM-27	5e94da8e7c993c0c150db384	2023-10-08 23:19	2023-10-22 20:39	2023-10-08 23:23	2023-10-22 20:39	Description: Create Authentication with Firebase. The Sign In form takes email and password to enter the application. Sign up form takes username, email and password.
9	SCRUM-28	5e94da8e7c993c0c150db384	2023-10-08 23:20	2023-10-22 20:40	2023-10-22 8:40	2023-10-22 20:40	Description: Create a until function that reads from JSON and calculates the linear score and dimensionless score.
10	SCRUM-29	63d376c74a3c3294ac052ff8	2023-10-08 23:20	2023-10-22 11:08	2023-10-22 11:39	2023-10-22 11:08	Description: Improve the over all layout of the application.
11	SCRUM-30	5aba80372235812a623479f3	2023-10-08 23:21	2023-10-22 12:55	2023-10-24 1:59	2023-10-22 12:55	Description: Learn plotly js. Read values form JSON and generate a graph.

Table 2: Sprint 2 - Task List (Done)

	A	B	C	D	E
1	Issue key	Custom field (Story point estimate)	Custom field ([CH	Comment	Status Category
2	SCRUM-21	2	2023-10-22	22/Oct/23 9:36 AM;712020:e97dd1a2-dc95-47bb-86b2-4de5da0a9121;[https://github.com/Manjinder-Singh/COMP8967-1-R-2023F-Internship-Project-I/blob/sprint-2/tableops.html|https://github.com/Manjinder-Singh/COMP8967-1-R-2023F-Internship-Project-I/blob/sprint-2/tableops.html]	Done
3	SCRUM-22	2	2023-10-22	22/Oct/23 9:36 AM;712020:e97dd1a2-dc95-47bb-86b2-4de5da0a9121;[https://github.com/Manjinder-Singh/COMP8967-1-R-2023F-Internship-Project-I/blob/sprint-2/tableops.html|https://github.com/Manjinder-Singh/COMP8967-1-R-2023F-Internship-Project-I/blob/sprint-2/tableops.html|smart-link]	Done
4	SCRUM-23	2	2023-10-22	22/Oct/23 9:36 AM;712020:e97dd1a2-dc95-47bb-86b2-4de5da0a9121;[https://github.com/Manjinder-Singh/COMP8967-1-R-2023F-Internship-	Done
5	SCRUM-24	2	2023-10-22	22/Oct/23 9:37 AM;712020:e97dd1a2-dc95-47bb-86b2-4de5da0a9121;[https://github.com/Manjinder-Singh/COMP8967-1-R-2023F-Internship-	Done
6	SCRUM-25	2			Done
7	SCRUM-26	2			Done
8	SCRUM-27	2	2023-10-23	22/Oct/23 8:39 PM;5e94da8e7c993c0c150db384;Authentication done.	Done
9	SCRUM-28	2			Done
10	SCRUM-29	2	2023-10-22	22/Oct/23 11:07 AM;63d376c74a3c3294ac052ff8;Well, the overall layout of the developed pages were improved and code is pushed to GitHub repository.	Done
11	SCRUM-30	2		22/Oct/23 12:55 PM;5aba80372235812a623479f3;I have completed the task and pushed the code to Git.	Done

Table 3: Sprint 2 - Task List (Done)

Screenshot: Sprint 2 Tasks (Done) on Jira Tool

b) WORK IN PROGRESS

Sprint 3 – 10/23/2023 to 10/29/2023
Primary Focus – Further improvements related to CSS and addition functionalities with validation.
Status – In Progress
Backlog – NA

Common Attributes of Tasks:
Issue Type – Task
Project Key – Scrum
Project Name – My Scrum Project
Project Type – software
Priority – Medium
Resolution – In Progress
Sprint – Scrum Sprint 3
Custom field (Story point estimate) – 2
Status Category – In Progress
Creator – Harbhajan Singh
Creator Id - 5aba80372235812a623479f3

	Issue key	Summary	Issue id	Priority	Assignee	Assignee Id	Creator Id	Created	Updated	Last Viewed
2	SCRUM-35	1. Connect Sign Up and Sing In pages with firebase auth.	10065	Medium	Manjinder Singh	63d376c74a3c3294ac052ff8	5aba80372235812a623479f3	10/23/2023 23:22	10/23/2023 23:22	10/27/2023 8:43
3	SCRUM-36	2. Incorporate number/description drop-down for few fields in table 1 and 2.	10064	Medium	Ajwad Maahi	70121:53eb6702-171a-48be-b0b2-cbad700c7c77	5aba80372235812a623479f3	10/23/2023 23:21	10/25/2023 12:47	10/27/2023 8:44
4	SCRUM-37	3. Generate Table 3 from Table 1&2	10063	Medium	Harbhajan Singh	5aba80372235812a623479f3	5aba80372235812a623479f3	10/23/2023 23:20	10/23/2023 23:24	10/27/2023 8:44
5	SCRUM-38	4. Plan a JSON layout for storing the data and store results of Table 3 in JSON format.	10062	Medium	Harbhajan Singh	5aba80372235812a623479f3	5aba80372235812a623479f3	10/23/2023 23:20	10/23/2023 23:24	10/27/2023 8:44
6	SCRUM-39	5. Store results of Table 3 in local storage.	10061	Medium	Karan Vishavjit	5e94da8e7c993c0c150db384	5aba80372235812a623479f3	10/23/2023 23:19	10/25/2023 0:01	10/27/2023 8:44
7	SCRUM-40	6. Create a map for "high", low, mid and other components and associate it with a number. Example: "high" = 2.	10060	Medium	Karan Vishavjit	5e94da8e7c993c0c150db384	5aba80372235812a623479f3	10/23/2023 23:19	10/25/2023 0:02	10/27/2023 8:44
8	SCRUM-41	7. Calculate the linear score from the values obtained in Table 3.	10059	Medium	dhrumillimbad	712020:e97dd1a2-dc95-47bb-86b2-4de5da0a9121	5aba80372235812a623479f3	10/23/2023 23:18	10/24/2023 16:18	10/27/2023 8:44
9	SCRUM-42	8. Dump results in charts and display a range of charts or simply one chart.	10058	Medium	dhrumillimbad	712020:e97dd1a2-dc95-47bb-86b2-4de5da0a9121	5aba80372235812a623479f3	10/23/2023 23:17	10/24/2023 16:17	10/27/2023 8:44
10	SCRUM-43	9. Store Auth email in local storage.	10057	Medium	dhrumillimbad	712020:e97dd1a2-dc95-47bb-86b2-4de5da0a9121	5aba80372235812a623479f3	10/23/2023 23:17	10/24/2023 16:17	10/27/2023 8:44
11	SCRUM-44	10. Display user email on screen.	10056	Medium	Karan Vishavjit	5e94da8e7c993c0c150db384	5aba80372235812a623479f3	10/23/2023 23:16	10/25/2023 0:01	10/27/2023 8:44

Screenshot: Sprint 3 Tasks ((In Progress) on Jira Tool

	A	B	C	D
1	Issue key	Description	Custom field (Story point estimate)	Status Category
2	SCRUM-35	Description: Display user email on screen.	2	In Progress
3	SCRUM-36	Description: Store Authentic email in local storage.	2	In Progress
4	SCRUM-37		2	In Progress
5	SCRUM-38	Description: Calculate the linear score from the values obtained in Table 3.	2	In Progress
6	SCRUM-39	Description: Create a map for "high", low, mid and other components and associate it with a number. Example: "high" = 2.	2	In Progress
7	SCRUM-40	Description: Store results of Table 3 in local storage.	2	In Progress
8	SCRUM-41	Description: Plan a JSON layout for storing the data and store results of Table 3 in JSON format.	2	In Progress
9	SCRUM-42	Description: Generate Table 3 from Table 1&2	2	In Progress
10	SCRUM-43	Description: After incorporate number/description drop-down for few fields in table 1 and 2.	2	In Progress
11	SCRUM-44	Description: Connect Sign Up and Sing In pages with firebase auth.	2	In Progress

Screenshot: Sprint 3 Tasks (In Progress) on Jira Tool

c) All the tasks assigned for the sprint 2 were completed and there are no tasks added to the backlogfor the next sprint.

d) Tasks were assigned to each member as seen in table 1 and everyone contributed to complete the tasks given for the sprint and pushed the code to GitHub.

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3. **Challenges and Issues (10)**
   a. **Challenges Faced: Discuss any challenges, roadblocks, or unexpected issues encountered duringthe sprint.**
   b. **Mitigation Strategies: Explain how challenges were addressed or mitigated to keep the projecton track.**

Challenges Faced:

➢ All team members are working on the same repository and sometimes on the same files as well when we are pushing the code into the main branch there are conflicts which again and again, we must resolve to merge.

➢ There was main challenge related to the beginning for the project "Climate Neutral" was critical as starting from beginning and doing everything as a team needs lots of designing screens as per requirements but meeting with Kyle was a plus point to start working on things as it provided clear picture for sprint 2.

➢ The second call was quite informative and short as the team was able to ask all the questions to begin with the project design and mini prototype that we were able to present at the end of sprint 2.

➢ Team members are not having prior experience in the front-end development so designing the roadmap for learning was hectic but not impossible to do so as learning platforms like LinkedIn Learning, You Tube and Stack Overflow was referred for the development of project.

➢ Learning was time consuming but once we started with the development then the team was able to implement things and side by side referred online resources to progress on work.

Mitigation Strategies:

- ➢ For code integration the best practice going forward will be to create a separate branch for each sprint and then merge it into the main branch to minimize conflicts.
- ➢ Based on the recording session and document manual for project were used as a reference to set sprint goals and tasks assignment.
- ➢ Online resources were referred for learning and a few YouTube channels were used for effective learning.
- ➢ Learning Path was prepared based on level of knowledge about skills, so it was assisting us during the development phase.
- ➢ Stack Overflow, LinkedIn Learning, YouTube was referred to handle issues related to the setup of development errors.

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4. **Lessons Learned (10)**
   a. **Best Practices: Share any best practices or lessons learned from the first and second sprint.**
   b. **Improvement Areas: Identify areas where processes or strategies could be improved for subsequent sprints**

This part is mainly about the **sprint retrospective summary** which is crucial after the sprint completion:
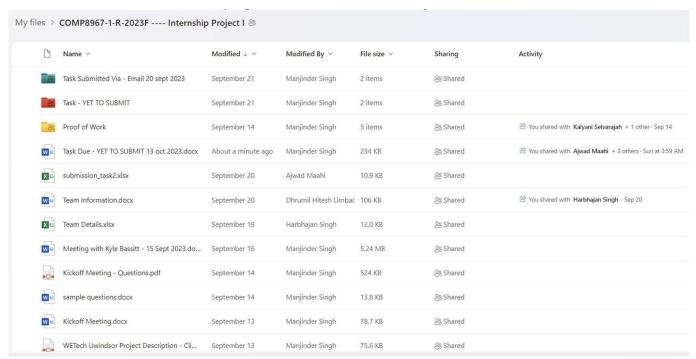Below is the summary of sprint retrospective:

During sprint - 2, our team successfully completed various UI screens with validations in order to present to Kyle just before the ending of Sprint 2. Here is a summary of our achievements and areas for improvement:
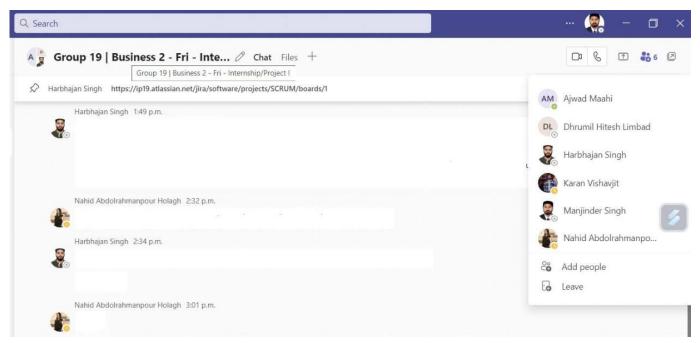
What Went Well:

- ➢ **Task Completion:** We successfully completed all the tasks assigned during this sprint but in real life projects, it may not be the same as backlogs can be there which is not a bad sign, but it means that we worked on things but due to few constraints, things were not aligned with the project scope
- ➢ **Diverse Skill Sets:** Our team demonstrated a wide range of skills, including HTML, CSS, JavaScript, and programming. As the second sprint was mainly prototype so we implemented the learnt concepts in sprint 2 to design web pages.
- ➢ **Timely Delivery:** All tasks were finished on schedule, meeting the sprint's deadline. However, as mentioned earlier it may not be the case in real-life projects which team will be working on from scratch until the final delivery of the product.
- ➢ **Task Distribution:** Tasks were efficiently distributed among team members, ensuring a balanced workload.
- ➢ **Meeting with Stakeholder Kyle:** Kyle was happy to view our progress and provided a few suggestions. Team kept the feedback in mind while designing Sprint 3 Tasks in order to work on things in timely fashion.
- ➢ **Improved Suggestions:** While discussing with Kyle we suggested Json file instead of text file to store the category and scenario values and Kyle was happy to learn about this implementation as it will be better and lightweight than original textfile based approach.
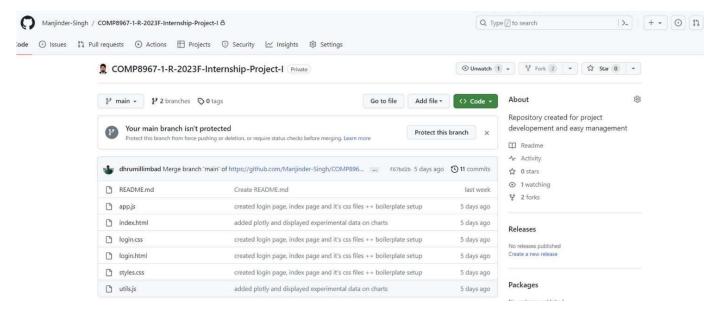
Areas for Improvement:

- ➢ **Documentation:** While the tasks are completed, there's room for improvement in documentation and comments within the code. But we firmly believe that the sprint was mainly focused on prototype to show progress with the Climate Neutral project, so the progress done after sprint 2 was reviewed by Kyle for his feedback.
- ➢ **Collaboration:** We can enhance collaboration between team members by sharing knowledge and skills. It handles this and we can schedule more daily sprint calls for connecting and sharing content over the One Drive.

Screenshot 1: One Drive folder for effectively sharing files within team

Screenshot 2: Microsoft Teams for Calls and exchanging key updates

Screenshot 3: Git Hub for Code Sharing

➢ **Testing:** Performing testing, especially for complex coding tasks, can help ensure code quality. But as we did some beginner level tasks, it was not required but if we did that as well, it would work as a base for the future tasks scheduled in future sprints.

➢ **Happy Flow:** At this point all the validation for the application flow are tested individually and on static dummy data, integrating all the flows and then successfully implementing happy flow is the expected target of the upcoming sprints.

➢ **Consistency:** Ensuring consistency in coding styles and practices will lead to more maintainable code. As every individual member in the team has different coding style and practices. So, if all team members follow same coding practices, then it will be beneficial to maintain consistency on GitHub Repository (https://github.com/Manjinder-Singh/COMP8967-1-R-2023F-Internship-Project-I)

Future Focus in Sprint 3 and Sprint 4:

➢ As we move forward, we will be focusing on maintaining high coding standards, more collaborative work and enhance the quality of our documentation. The skills and knowledge gained during this sprint will continue to benefit the team in future projects.

➢ We appreciate the hard work and dedication of all team members during this sprint, and we look forward to more successful sprints ahead.

> 5. **Next Steps (15)**
>   a. **Immediate Next Steps: Outline the tasks and objectives for the next sprint or phase of the project.**

Sprint Task	Objectives for Next Sprint
Validating the weight value for categories must be in range 0 to 1.	Implement core validation logic to ensure total weight for all categories must be in the range of 0 and 1 and user is not able to enter any other value.
Populate Step 1 and Step 2 input value from the saved file	After getting the recommended scenario when user saves the files in Json format the data will also be stored in local storage and when login again the input values are retrieved from the local storage or downloaded file.
Include accessibility features in the application	The goal is to enhance the application's

	accessibility by incorporating a wide range of features to ensure that it is inclusive and usable by all individuals, regardless of their abilities or disabilities.
Create Sign-out feature	The user should be able to log out from the application with the date worked on in the local storage that can later be retrieved.
Create graph(s) for scenarios, categories values according to dimensionless Scoring results.	Once the user inputs values in step 3 and upon submitting the recommended scenario must be highlighted and all the associated graphs must be displayed with detaailed values.
Including the Copyright statement and Climate Neutral logo on the main screen.	Incorporate legal requirements like copyright statement and branding on main pages.
Implement extra features like About Us, Careers, Contact Us Page for complete website presentation during final competition pitch.	Expand site navigation and content with secondary pages for "About Us", "Careers", etc.

Summary	Issue key	Issue id	Issue Type	Status	Project ke	Project na	Project typ	Priority	Assignee	Assignee I	Scheduled On	Scheduled to be Completed Before	Descriptio	Sprint	Custom fie	Status
1. Implement extra features like About Us, Careers, Contact Us Page for complete website presentation during final competition pitch.	SCRUM-55	10070	Task	To Do	SCRUM	My Scrum	software	Medium	Manjinder	63d376c7	10/30/2023 0:00	11/5/2023 23:59		SCRUM Sp	2	To Do
2. Including the Copyright statement and Climate Neutral logo on the main screen.	SCRUM-56	10071	Task	To Do	SCRUM	My Scrum	software	Medium	Ajwad Ma	70121:53e	10/30/2023 0:00	11/5/2023 23:59		SCRUM Sp	2	To Do
3. Create graph(s) for categories according to Linear Scoring results.	SCRUM-57	10072	Task	To Do	SCRUM	My Scrum	software	Medium	Harbhajan	5aba8037	10/30/2023 0:00	11/5/2023 23:59		SCRUM Sp	2	To Do
4. Create Signout feature	SCRUM-58	10073	Task	To Do	SCRUM	My Scrum	software	Medium	Karan Vish	5e94da8e	10/30/2023 0:00	11/5/2023 23:59		SCRUM Sp	2	To Do
5. Validating the weight field value of all columns so that total can be 1.	SCRUM-59	10074	Task	To Do	SCRUM	My Scrum	software	Medium	Dhrumil Li	712020:e9	10/30/2023 0:00	11/5/2023 23:59		SCRUM Sp	2	To Do
6. Populate Table 1 and Table 2 from the result of Table 3	SCRUM-60	10075	Task	To Do	SCRUM	My Scrum	software	Medium	Dhrumil Li	712020:e9	10/30/2023 0:00	11/5/2023 23:59		SCRUM Sp	2	To Do

Screenshot : Sprint 4 (Future tasks)

Well, the tasks and objectives listed above focus on essential functionality like input validation, legal compliance, flow refinement, and polish through expanded content and improved aesthetics. It may change based on the feedback from stakeholders as we will prioritize incorporating the changes suggested by Kyle. They aim to build on the existing foundation by enhancing the UX, strengthening logical connections between components, and meeting legal requirements. Smooth transitions, consistent styling, and navigation will elevate the overall presentation and experience. So, the tasks listed above will be expanded along with the feedback from stakeholders.

PART B

Summary of first business meeting: List down all the questions your group asked and associated answers by the business. (30)

Q1: Should users download the recommended plots?
A: Yes, they can download the plots/charts in PNG or JPG format.

Q2: Should the table headers be aligned at 45 degrees?

A: It is not a basic requirement, but the business wants to see whether it can be done using the mentioned technology, i.e., using CSS.

Q3: Each Scenario in the table has multiple categories in it? Does the business want an 'Array of Categories' or 'Multiple JSON Object for each Category.' How would the business want the file to be downloaded?

A: It is a key value pair, so it does not actually matter if we are pulling it from multiple JSON files, or if we have everything in one JSON file because we are pulling it by the key. We are pulling it from a key value into a VAR (variable). As per Business we can define it as one scenario has Json array object of multiple categories, and each Json file can have multiple Json objects.

Q4: When do we populate values in the local storage?

A: When the user logs for the first time then there is not going to be anything in the local storage. When the user clicks on the 'Submit', 'Save' or 'Get Results' button, then the data automatically gets saved in the local storage. Then, upon Window reload it retrieves data from the local storage and if user want to upload input values from a file the populated values must be overridden by downloaded file input values.

Q5: When the user signs out then should the data be cleared, or should they remain?

A: The data would remain if the user logged in the system, is the same user. If the user is new, then it will not show the data, i.e., the application will show different data based on different users. Moreover, the storage is user's own local machine so it can be stored in local storage even after logout.

Q6: If someone updates the file with invalid input values, for example, someone has changed the value in such a way that the actual data should not be below or above a certain range type, say about 1-10. So, do we have to put the validation on the input data? So that when we are importing the data, then all the constraints are in place?

A: As per the business requirement, there needs to be a validation on the text input itself so that the user can enter value within a certain range. The validation can be set while inputting the data so that it remains clean when storing.

References
1. Minutes of Meet with Kyle just before the ending of Sprint 2
2. P2 Summary Report – Group 19