

# The Plan of Sprint 3

## Date

25/09/23 --20/10/23(4 weeks)

## Team Members

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## Sprint 3 goal

- Finish all sprint 3 checklist
- Finish age group and coach page develop
- After getting the feedback from Sprint2 and doing well in Sprint3
- Communicate with team members well
- Successful deployment of the overall project
- Optimize all documentation with a clear structure

## Sprint Backlog Items:

ID	Task Name	Task Description	Task Dependency	Task Workload	Additional information
1	Confluence Management	Keep the confluence consistent with the Trello board	Task2	3 weeks	Contents are available and updated on Confluence (meeting minutes, scope of the project, diagrams, technologies used in the project, user stories, and test cases). Contents are consistent with Trello (or GitHub project) and with their code repositories.
2	Trello board Management	Keep the Trello board consistent with the Confluence and sprint backlog divided into user stories	Task1 Task3	3 weeks	We need to organize a product backlog and a lower-level sprint backlog. Tasks in the sprint backlog were estimated, had an appropriate due date, and had a sufficiently low level of granularity. Here is a link to our Trello
3	User Story Management	if needed, perform user story segmentation into sprint backlogs	Previous User Story	3 days	Tasks are also clear, linked to their user stories (Confluence), and offer additional descriptions when necessary.
4	Self Code Review	Peer to Peer code review	None	5 days	We need to document their peer-to-peer review on GitHub (pull request comment)[ OPTIONAL]. We need to document their peer-to-peer review on Confluence (a new page on Confluence to document how you performed your code review).
5	GPT Code Review	chatbot code review	None	5 days	In case we used ChatGPT in Week 10, please disconnect our GitHub repository from our ChatGPT Code Review one so don't get charged in the future
6	Sprint 4 Plan	Sprint 4 Plan documentation and meeting	None	3 days	A clear indication that sprint planning was followed this sprint and a clear, consistent, updated sprint planning for Sprint 4. A clear indication that sprint review was followed this sprint. The team organized a meeting for this, documented discussions, reflections, and the next steps to be taken in Sprint 4.
7	Sprint3 review	Sprint3 review documentation and meeting	None	3 days	Client Review Meeting and get feedback on our project
8	Sprint3 Retrospective	Sprint3 Retrospective documentation and meeting	None	3 days	For members playing in sprint 3 review what we did well and what they didn't do well. Maintain the good parts and improve the bad parts in the next sprint.
9	Ethical Considerations	Ethical Considerations improvement	Previous Ethical Consideration	5 days	Make sure that our ethical considerations are documented on Confluence:  Clear indication that students discussed/reflected on project ethical issues.

10	Cyber Security Consideration	Cyber Security Consideration Improvement	Previous Cyber Security Consideration	5 days	Make sure that our cyber security considerations are documented on Confluence:  A clear indication that students discussed/reflected on project cyber security issues.
11	Project Product	Continued development of sprint3 based on previous project developments	Previous Project Product	3 weeks	The product is deployed and a URL is available on Confluence and GitHub README so the client can access the current version of this software.  FOR PROJECTS WE CAN'T DEPLOY NOW: Can you emulate the project and demonstrate current progress for us in a short recorded video? we need to be able to measure your development progress in Sprint 3, that's all.
12	GitHub Management	On top of the previous GitHub, make sure the structure is in the mood to open a sprint3 branch for job submissions	None	3 days	Folders are structured. Sprint 3 documents were exported from Confluence and added to the repository (and are updated) README file is updated and explains the team's repository and new release A baseline tag was generated for this Sprint
13	Meetings	Keep the internal, external, supervisor, and client meeting	None	3 weeks	Make sure our meetings (team meetings, supervision meetings, and meetings with industry partners) are documented in Confluence (and only).  Meetings are recorded in Confluence and only
14	FrontEnd-Age Group Page	Keep the age group page development consistent with the previous module page	Previous FrontEnd Pages /component	3 days	Ongoing development of remaining front-end pages to ensure interaction with the back-end
15	Frontend_5.2.1 Single AgeGroup Detail Page - Modules Table	Keep the coach page development consistent with the previous module page	Previous FrontEnd Pages /component	5 days	Ongoing development of remaining front-end pages to ensure interaction with the back-end
16	FrontEnd-Overall Pages interaction	Make sure overall FrontEnd pages are running properly	Previous FrontEnd Pages/component	3 days	Ongoing development of remaining front-end pages to ensure interaction with the back-end
17	FrontEnd-Display Component	Create all components needed when developing the main pages	Previous FrontEnd Pages /component	3 days	Ongoing development of remaining front-end pages to ensure interaction with the back-end
18	BackEnd-Interactions APIs	Additional back-end interaction APIs that may be required	Previous BackEnd database and APIs	5 days	Ongoing development of back-end APIs, testing usability with Postman, maintaining interaction with front-end and databases
19	BackEnd-Database	Communicate with the redback team or new requirements for the database	Previous BackEnd database and APIs	3 days	Ongoing development of back-end APIs, testing usability with Postman, maintaining interaction with front-end and databases
20	Project deployment	Project deployment if all done	Previous project	3 days	Make sure the deployment of this project successfully
21	Backend_4.4 Find operations for the class.	backend development of the project	None	3 days	Find operations for the class.
22	Frontend_2.2.6 Adjust the order of materials in the module	frontend development of the project rest pages	Module page	3 days	Adjust the order of materials in the module
23	Backend_5.5 Implement login attempt count	backend development of the project	login function	3 days	Implement login attempt count
24	Backend_5.6 Implement login whitelist filtering	backend development of the project	None	3 days	Implement login whitelist filtering
25	Frontend_2.2.5 Enhance update function for Sub-module Movement	frontend development of the project rest pages	sub-module	3 days	Enhance the update function for the Sub-module Movement
26	Backend_5.7 Store login tokens in the database	backend development of the project	login function	3 days	Store login tokens in the database
27	Frontend_5.1.1 Able to display a list of age groups	frontend development of the project rest pages	age group page	3 days	Able to display a list of age groups
28	Frontend_5.1.2 Pop-up windows for updating the name of age group	frontend development of the project rest pages	age group page	3 days	Pop-up windows for updating the name of age group
29	Frontend_5.1.3 Pop-up windows for creating a new empty age group	frontend development of the project rest pages	age group page	3 days	Pop-up windows for creating a new empty age group

30	Frontend_5.2.3 Create an overview information display block for Single AgeGroup Detail Page	frontend development of the project rest pages	age group page	3 days	Create an overview information display block for the Single AgeGroup Detail Page
31	Frontend_6.1.3 Coaches display page- Pop-up windows for creating a new coach	frontend development of the project rest pages	coach page	3 days	Coaches display page- Pop-up windows for creating a new coach
32	Frontend_6.2.1 Display Coach profile	frontend development of the project rest pages	coach page	3 days	Display Coach profile
33	Frontend_6.2.2 Edit Coach profile	frontend development of the project rest pages		3 days	Edit Coach profile
34	Frontend_6.3 Achieve redirections between the AgeGroup detail page and the Coach profile page	frontend development of the project rest pages	coach page	3 days	Achieve redirections between the AgeGroup detail page and the Coach profile page
35	Database integration with rea team	With the red team to do database integration	red team integration	5 days	With the red team to do database integration
36	Create the shared login switch web pages with the red team	Share page about switch admin /coach login	red team integration	5 days	Share page about switch admin/coach login
37	User story update	User story update	Previous user stories	3 days	User story update

## Scrum meeting

- Weekly Meeting with supervisor 5:30 pm, Monday
- Internal StandUp Meeting: 7:00 pm, Tuesday. 8:30 pm, Friday
- Client Review Meeting: TBD
- Team Meeting with RedBack: TBD

## Review and Retrospective

Sprint Review and Retrospective: During 16/10/23–20/10/23

Submission date: 18/10/23

## Testing and Validation

To ensure the quality and stability of our front-end and back-end code, the team will implement the following testing strategies:

- Unit Testing: Unit tests will be executed before each code commit to ensure that newly added or modified code does not affect existing functionality.
- Integration testing: Integration tests will be performed on the front-end and back-end interfaces to ensure that data flow and functional interactions are normal.
- User Acceptance Testing: Communicate with the client and ask them to test the new features at the end of each Sprint to gather their feedback.
- Performance testing: Before the project is deployed, we will test its performance under high traffic to ensure it meets the actual usage requirements.

The tests will be conducted using automated testing tools and will be documented on Confluence and shared with team members.

## User Experience and Design

To ensure that our products meet user expectations and are easy to use, we will:

Prototyping: Before development, we will create a prototype of the product so that both the team and the client have a clear idea of how the product will ultimately look and function.

User Feedback: We will collect and analyze user feedback to ensure that the design and functionality of the product meet their needs.

Design Iteration: Based on user and customer feedback, we will continue to iterate our design to ensure it achieves the best possible user experience.

## Documentation Management

To ensure that the project is sustainable and easy to maintain, we will: Code comments: When team members submit code, they must add clear comments describing the functionality and logic of the code. Technical Documentation: In addition to the code, we will create technical documentation that describes the architecture of the system, the technologies used, and third-party libraries. User manuals: To help users use our products, we create a user manual that describes the main features of the product and how to use it. These documents will be stored on Confluence to ensure easy access and use by all team members and future maintainers.

## Risk Management

Risks can be encountered at every stage of a project. The team has identified the following potential risks and prepared strategies to address them:

Changes in requirements: Requirements may change during communication with the client. For this reason, we will maintain regular communication with the client and update the requirements document after each change. Technical Challenges: During the development process, technical problems may be encountered. Team members will regularly share and discuss technical issues and consider advice from external experts.

Time constraints: The project schedule may be delayed due to various reasons. For this reason, we will regularly check the progress of the project and reassign tasks or increase the work hours if necessary.

Risk management documentation is recorded on Confluence to ensure that team members are aware of possible risks and how to deal with them.

## Documentation Submission:

Keep all documentation in order and structured

Make sure the documentation with proper name on it

Make sure the GitHub with release Tag and correct branch name (also the push, and commit message)

The final submission needs to include all documentation (except the meeting minutes)

Everything needs to be double check before submitting to all team members

## Additional

- Continuous optimization of completed tasks
- Continued development of unfinished pages and back-end database interactions
- Break down tasks with team members to ensure that the project schedule is not delayed.
- Keep in touch with the supervisor and client to ensure that the project requirements do not change. Prioritise and deal with changes if they occur.
- Focus on documentation
- Deploying and refining the website once it is complete
- Aim to complete all development before sprint4, sprint4 full focus on presentation and report

## Summary

During this Sprint development, the team will focus on several key areas: firstly task tracking to ensure that students have organized a full Product Backlog as well as a detailed Sprint Backlog. At the same time, tasks will need to be aligned with either Trello or JIRA and their codebase. Front-end and back-end development will be the focus of this Sprint, involving tasks that will ensure the interactivity and functionality of the website or application. Database design, optimization, and management are also taken into account to ensure data integrity, security, and efficient access. Code review is another centrepiece and students are required to keep detailed records on GitHub as well as on Confluence. Regarding Sprint planning and review, there must be clear plans and updates on Confluence, as well as clear documentation of team meetings. Ethics and cybersecurity are also the focus of this Sprint, and the team is required to discuss both and document them on Confluence. Finally, product releases and updates need to ensure that the current version of the software is deployable, or if not, a video of a mock project is required. The management of the GitHub repository was also highlighted, ensuring folders were organized, documentation was updated and baseline tags were created for this Sprint. This Sprint clarified the team's responsibilities and expectations for front-end, back-end, database, and interactions, setting the project up for success.