Interim Software Requirement Specification (SRS) Report

Unit Code: CPRO306

Unit Title: Capstone Project

Team: A3

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1.0 Introduction

1.1 Purpose of the project (complete business solution)

- To manage the fitness gym business memberships and payments records along with the common user frontend.
- To store the fitness gym membership plans, packages, and trainers.
- To create a plan list that should help organize the member's selected plan for his/her membership with the Crunch Fitness Gym.
- To create a package list that should refer to the list of packages that the fitness gym management offers to their members.

1.2 Objective of the project (what the client wanted to achieve in this project)

- Gym has multiple equipment, friendly environment and enough space for workout
- System has enabled costumer to add, manage the payment and refund procedure of the gym
- Costumer can easily manage booking and scheduling classes
- There is an option where costumer can book certified trainer.

1.3 Scope and Limitation (PQM)

- Crunch Fitness Gym Online Management System's Website needs to base on .PHP as a Back End and HTML, JAVA and CSS as a Front End.
- Whereas, For Payment gateway there we need to use Square and PayPal for Direct Debit and Debit/Credit card payments.
- This Report will highlight Roles and Responsibilities, Key Deliverables, WBS (Work Breakdown Structures), Gant Chart and Risk Management Plan.

1.4 project Assumption (PQM)

- As we know the gym and fitness industry is getting bigger every day and due to the growing numbers of members, we need a well-managed Online Management System.
- This will help both Gym owner and Admin to manage the users and client's Attendance, Profile and Payments.

2.0 Project organization

2.1 Company Profile

- A3-DevTech Ltd has 7 years of experiences developing information systems for difference nature of businesses.
- Work very closely with client to achieve what they wanted by using scrum agile method with iteration and incremental changes for continuously improvement in the project
- Building and Design Dynamic websites for clients
- Providing long term IT solution, User end product and maintenance.

Figure 1 – Company Logo

Company logo

- Crunch fitness has quality customer service
- They have less amount of joining fee comparing to other
- They have tons of weight, lifting areas, rows of cardio, Zumba classes, changing facilities etc.
- Gym opens 24/7
- They always response and take feedback from the costumer

2.2 Organization Chart

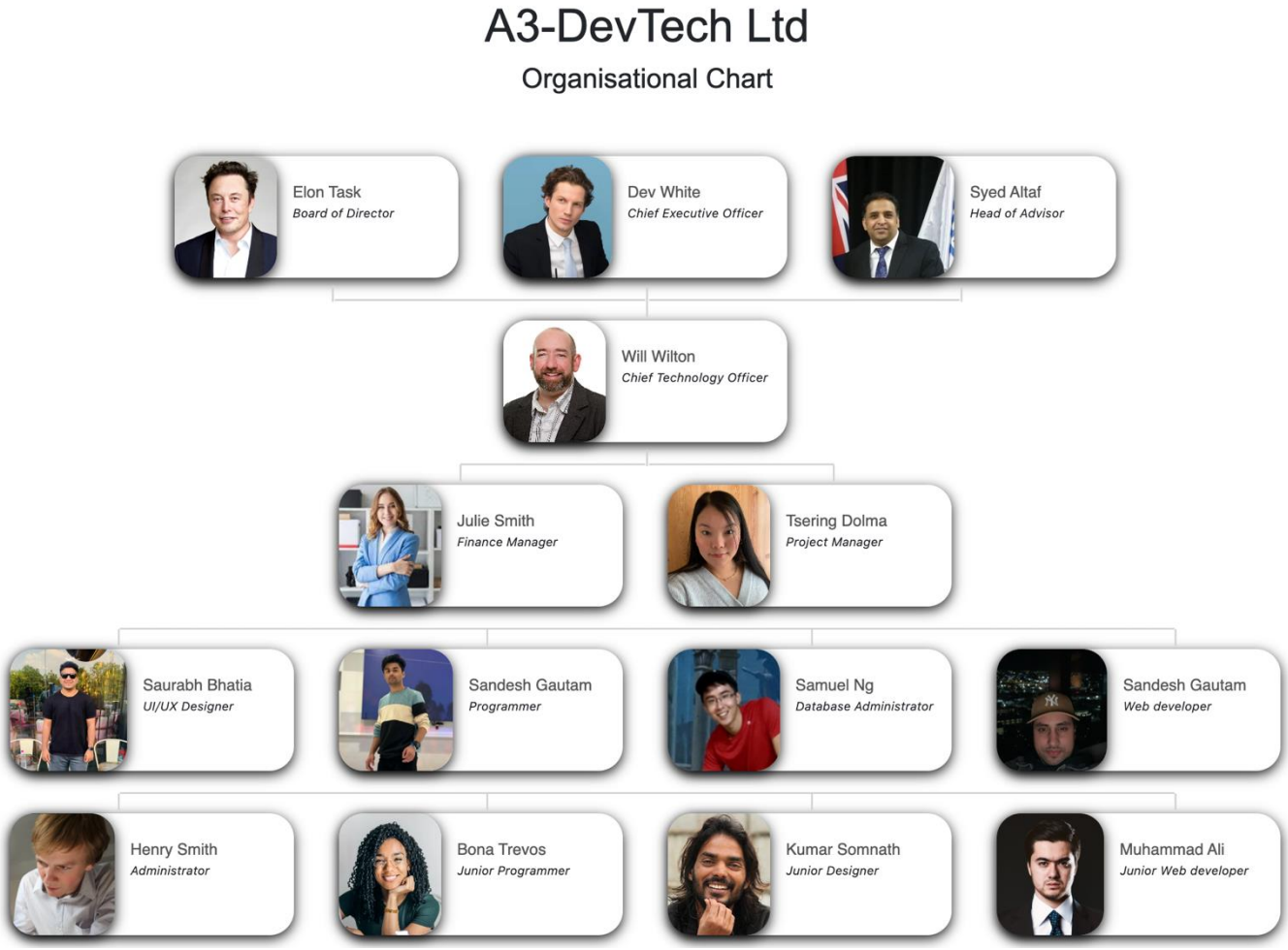


Figure 2 – Organisational Chart https://jap0mtenivrtvm0e9k4zzg.on.drv.tw/A3-DevTech-OrganisationChart/

2.3 Role and responsibilities

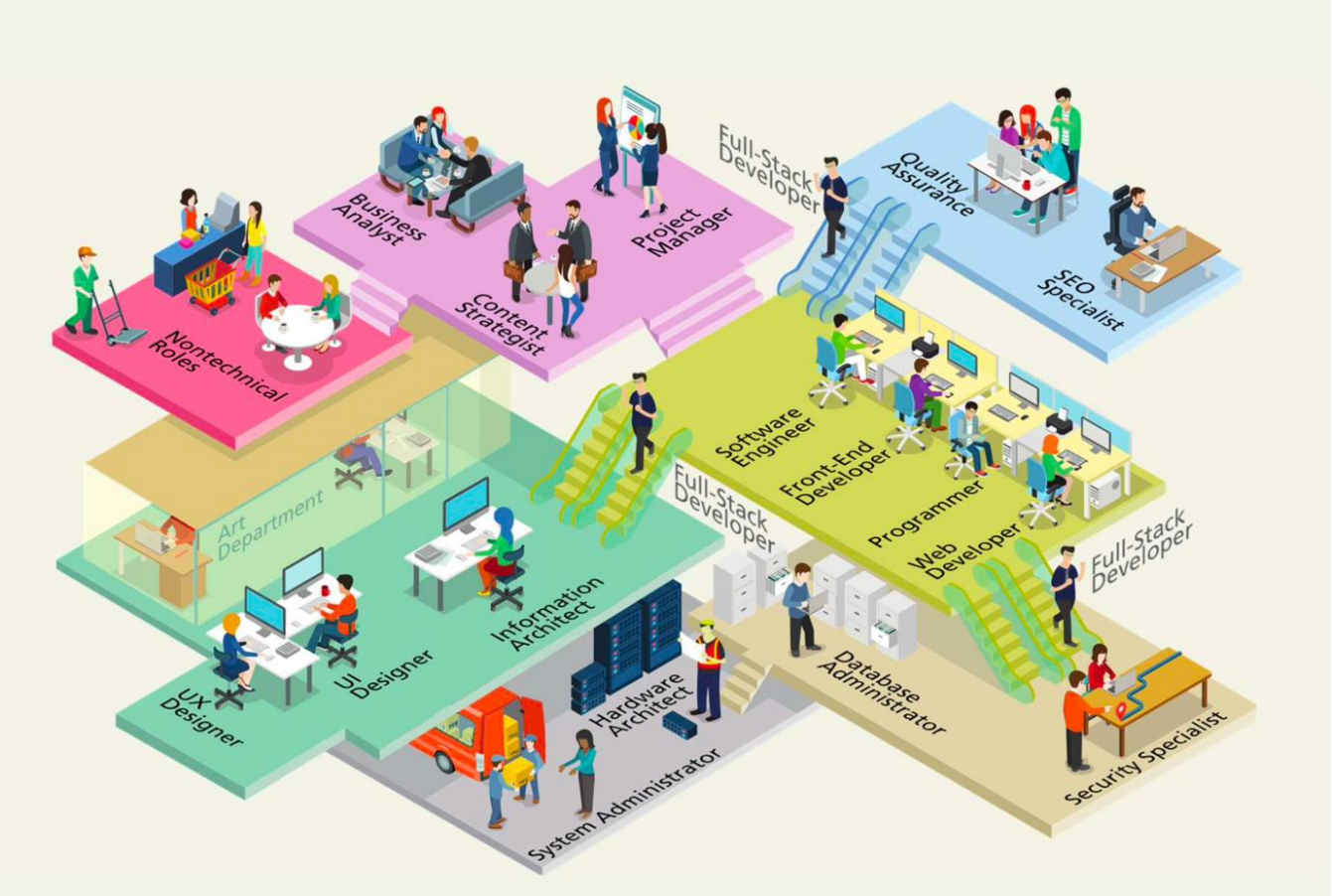


Figure 3 – picture of the IT positions

Project Manager

- Team management.
- Create and manage project plans.
- Align the project based on company goals and making sure the team is clear about the objective.
- Build relationships with customers, stakeholders, partnerships and sponsors.
- Define project schedules and allocate resources and monitoring the progress throughout the entire software development life cycle.

DB Admin/Developer

- Plan, develop, configure, maintain, secure and support by using MySQL/phpMyAdmin database.
- Ensure the backend are able to retrieve data for the frontend.
- Support and upkeep of Crunch fitness database systems, along with monitoring, backup, and recovery services.
- Manage database design and deploy database changes in collaboration with stakeholders and colleagues after the analyzing phase.
- Ensure the payment, invoice and stakeholder details of database design met the business requirement of Crunch Fitness during the development phase.

Web Developer

- Developing the website according to the wireframe/prototype given by the UI design and follow the system module requirements.
- Work closely with the UI designer and customer during the planning phase to make sure the feasibility of the development of the frontend UI design.
- Responsible on building Crunch fitness webpages by using code editor such as Virtual Studio code.
- Building a dynamic website with web languages such as HTML, CSS, JavaScript and other frameworks based on Crunch fitness requirements.
- Understanding the needs and provide solutions for the user such as trainer and customer needs from an iteration and incremental process of every SDLC phases.
- Leverage on Web hosting company using AWS S3 Bucket, CloudFront and SSL certificate for “Https” to reduce vulnerability of the website.

UI Designer

- Using Balsamiq Wireframes online as a tool to create low fidelity wireframes user interface before creating high fidelity wireframes/prototype.
- Work closely with web developer in the frontend to ensure the design of the (UI) user interfaces are feasible to implement during the planning phase.
- Ensure the design of every user interface should be coherent.
- Ensure user experience or user interface developers focus on how the customer experiences the end product.
- Ensure the design of the UI allow user to aware what to do next.

Programmer

- Building an information system by connecting frontend, backend and databases with by using PHP programming languages.
- Creating functions that user shouldn't be permitted to move forwards without fixing a mistake.
- Debugging during testing phase, work closely with the web developer for problem solving.
- Testing on all the logics and function that had been develop in the information system during the testing phase
- Analyzing and fixing common problems such as online payment and etc.

3.0 Project delivery and budget

3.1 Key deliverables

- The project will provide a system that will help to manage all the gym memberships and payment records.
- It will provide a system which includes the packages, membership plans along with the trainers.
- The system will also help members to select the suitable programs which helps to identify the active member.
- It also provides a system which shows membership plan based on their packages which allows to know the non-active members.
- The systems will provide a login page, dashboard, package page, plan page, membership page and all the other facilities to manage fitness Gym business.

3.2 Project Budget

Annual Salary Report

Annual Salary 2022 (Indeed 2022)			
No Resource	**Position**	**Yearly**	**Hourly**
1	Project Manager	$133,549	$64.21
2	Database Admin	$106,244	$51.08
3	Web Developer (Frontend)	$129,767	$62.39
4	Programmer (Backend)	$133,356	$64.11
5	UI Designer	$109,330	$52.56

Budget Breakdown

ID	Task	Re. No	Re. cost	Hours	Total Cost	Remark
1	**Planning and Analysis Phase**					
1.1	Team Collaboration	1	$64.21	24	$1,541.04	Outsourcing, research and team recruitment
1.2	Create Strategies and Goal	1	$64.21	24	$1,541.04	
1.3	Meetings & Discussion with stakeholders (Low and High elicitation)	1	$64.21	36	$2,311.56	Understanding the business requirements Brainstorming Face to face conversation Scrum/sprint meeting
		3	$62.39	8	$499.12	
		5	$52.56	8	$420.48	
		2	$51.08	8	$408.64	
1.4	Document current system	1	$62.39	8	$499.12	
				116		
	Total	**A$7,221.00**				

2	Design Phase					
2.1	Database design	2	$51.08	48	$2,451.84	Entity Relationships Diagrams Dependencies Diagrams
2.2	Software design	4	$64.11	48	$3,077.28	Designing the logic (CRUD)
2.3	Interface Design	5	$52.56	56	$2,943.36	Login Page Dashboard Plan Page Packages Page Members Page Member Details Modal Trainers Page Membership Validity Page Schedule Page (Low & High-fidelity Wireframes & Prototypes, Average 56 hours per page)
2.4	Design specification	5	$52.56	24	$1,261.44	UI Design Requirements from 1-7
		3	$62.39	24	$1,497.36	
				200		
	Total	**A$11,231.00**				

3	Development					
3.1	Development System Modules	3 4 2	$62.39 $64.11 $51.08	58 58 58	$3,618.62 $3,718.38 $2,962.64	80x Functional requirements 7x Nonfunctional requirements (Average 2 hours per function & Non function requirements)
3.2	Intergate System Modules	3 4 2	$62.39 $64.11 $51.08	18 19 18	$1,123.02 $1,218.09 $919.44	Login Page Dashboard Plan Page Packages Page Members Page Member Details Modal Trainers Page Membership Validity Page Schedule Page (Demo for stakeholders, Average 8 hours per page)
3.3	Initial Testing	4	$64.11	24	$1,538.64	Black Box and White box testing
					253	
	Total	**A$15,099.00**				

4	Testing and Implementation					
4.1	System Testing	4	$64.11	36	$2,307.96	Black Box and White box testing/look for bugs
4.2	Document Issues	4	$64.11	12	$769.32	Reporting of the bug issue
4.3	Correct Issues	4	$64.11	24	$1,538.64	Debugging
4.4	Review	1 2 3 4 5	$64.21 $51.08 $62.39 $64.11 $52.56	1 1 2 1 2	$62.21 $51.08 $124.78 $64.11 $105.12	Final Demo
				79		
	Total	**A$5,023.00**				

Total Budget

Project Start Date: 14 November 2022 | **Project Finish Date**: 13 February 2023 **(Average 8 hours operation in 5 business days)**			
November 15.78% **Planning and Analysis** **A$7,221.00** **116 hours**	**December** 29.37% **Design** **A$11,231.00** **200 hours**	**January** 40.15% **Development** **A$15,099.00** **253hours**	**February** 14.05% **Testing Implementation** **A$5,023** **79 hours**
Total	**648 hours**		**A$38,574.00**

4.0 WBS & Gnatt Chart

4.1 WBS (Work Break Down Structure (PQM

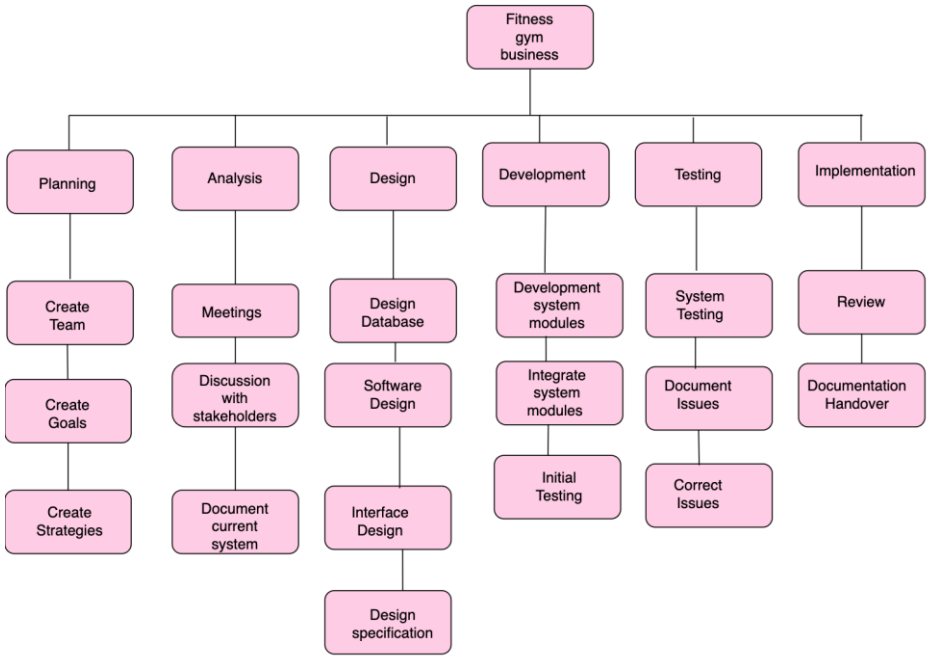


Figure 4 - WBS

4.2 Gantt Chart

4.2.1 Initial planning

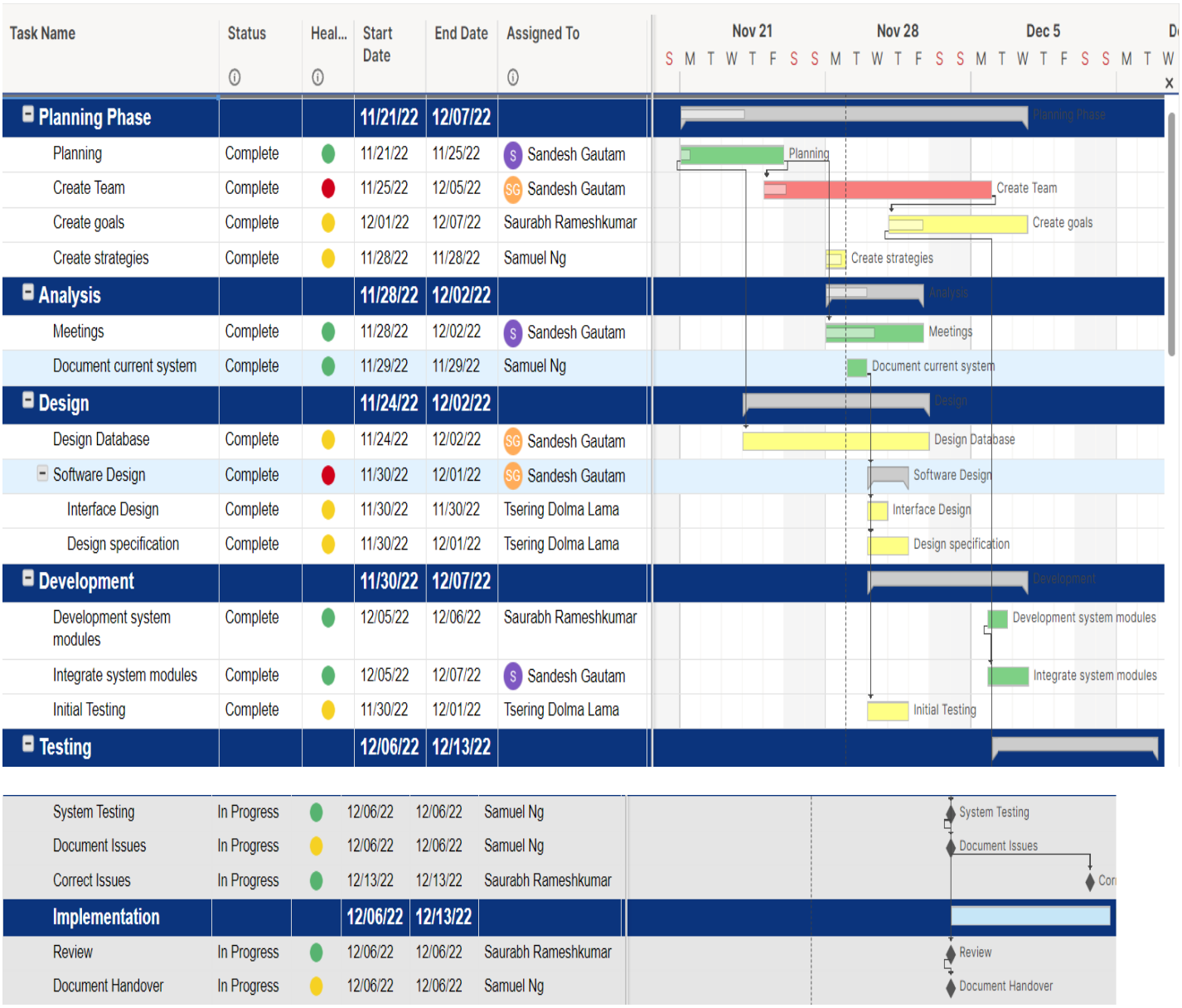
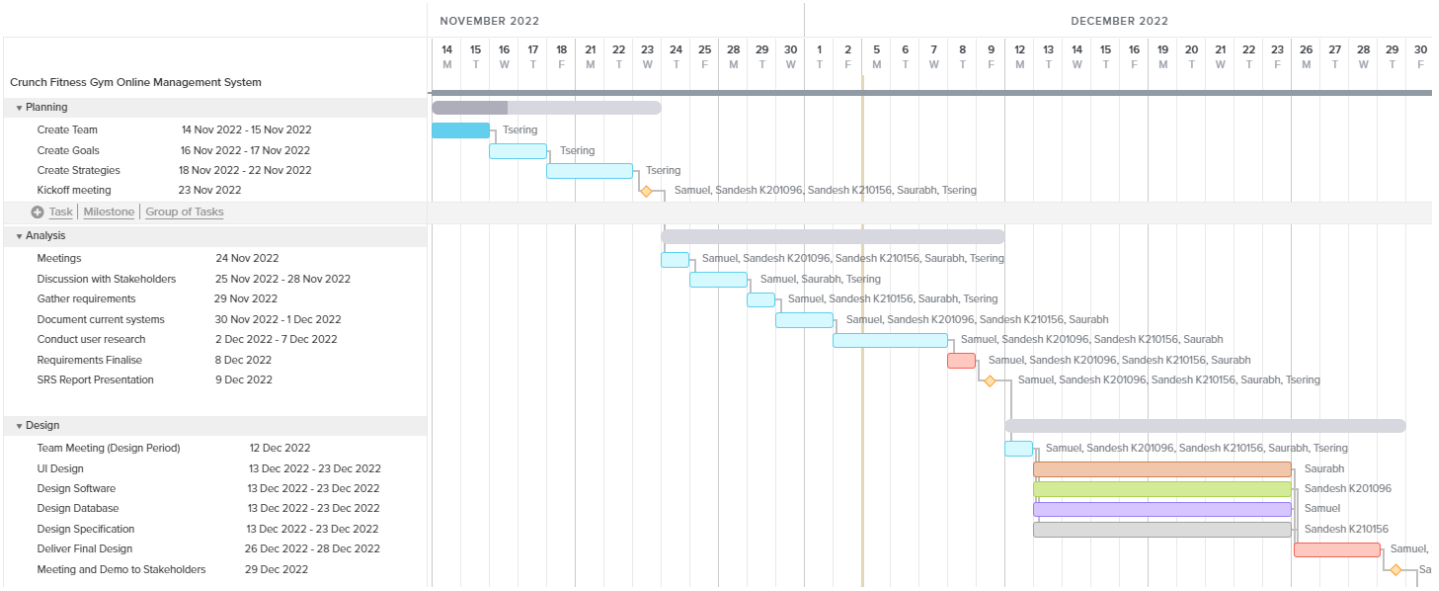


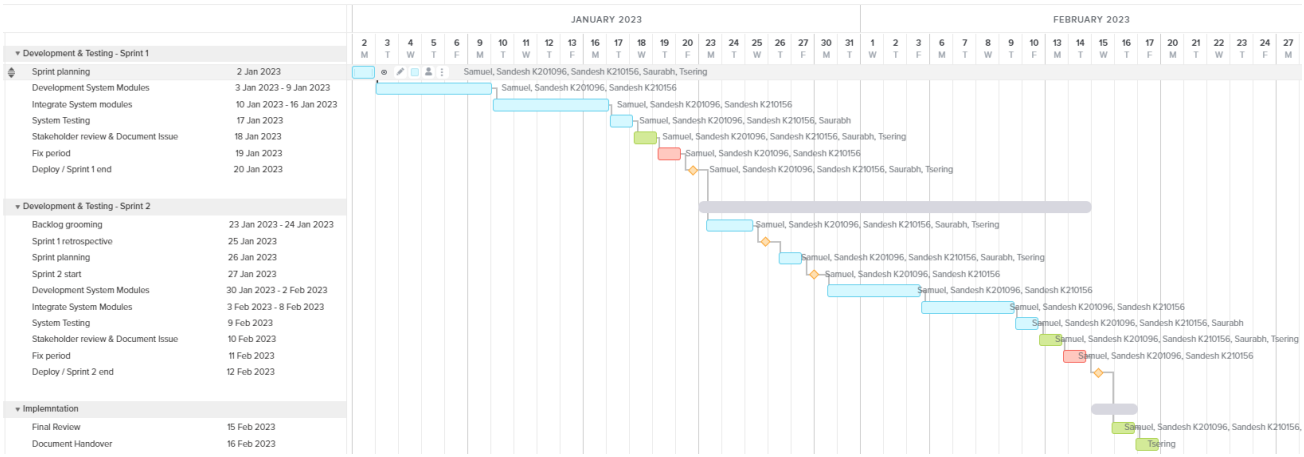
Figure 6 – Gantt Chart

4.2.2 After Feeback

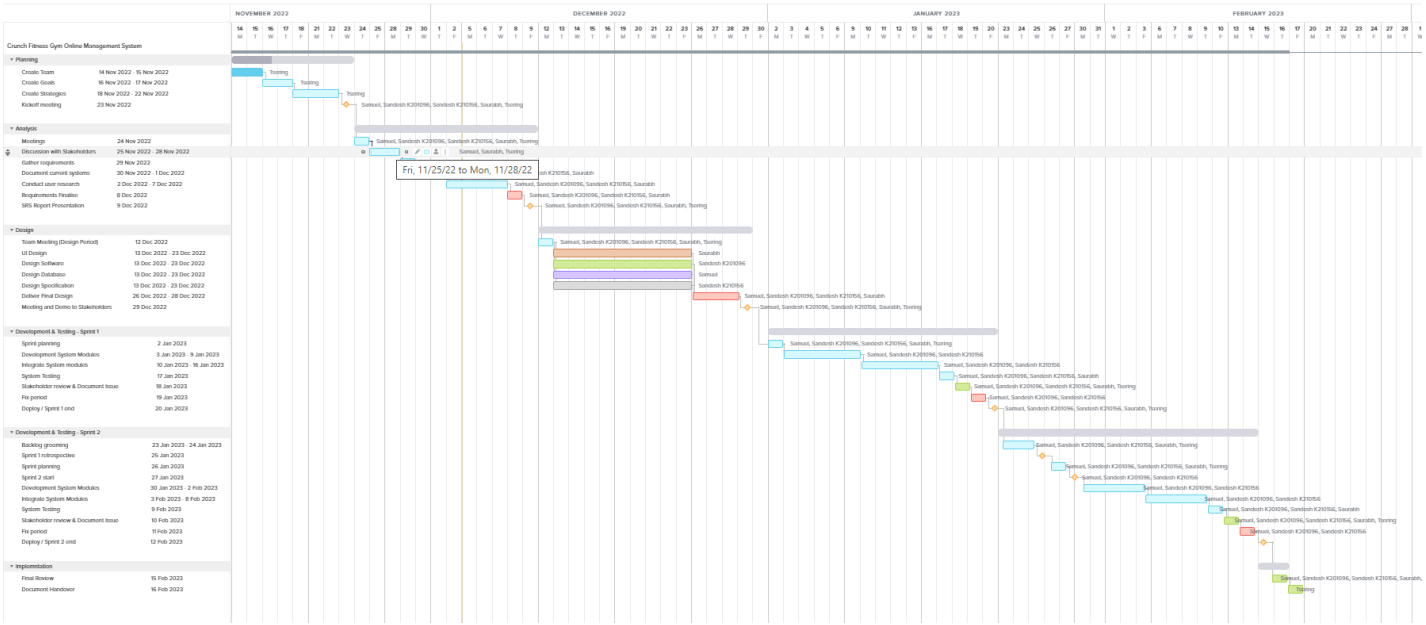
Planning, Analysis and Design



Sprint and Implementation



Overview


NOVEMBER 2022
DECEMBER 2022
JANUARY 2023
FEBRUARY 2023
Crunch Fitness Gym Online Management System
Planning
Create Team 14 Nov 2022 · 15 Nov 2022
Create Goals 16 Nov 2022 · 17 Nov 2022
Create Strategies 18 Nov 2022 · 22 Nov 2022
Kickoff meeting 23 Nov 2022
Analysis
Meetings 24 Nov 2022
Discussion with Stakeholders 25 Nov 2022 · 28 Nov 2022
Gather requirements 29 Nov 2022
Document current systems 30 Nov 2022 · 1 Dec 2022
Conduct user research 2 Dec 2022 · 7 Dec 2022
Requirements Finalise 8 Dec 2022
SRS Report Presentation 9 Dec 2022
Design
Team Meeting (Design Period) 12 Dec 2022
UI Design 13 Dec 2022 · 23 Dec 2022
Design Software 13 Dec 2022 · 23 Dec 2022
Design Database 13 Dec 2022 · 23 Dec 2022
Design Specification 13 Dec 2022 · 23 Dec 2022
Deliver Final Design 26 Dec 2022 · 28 Dec 2022
Meeting and Demo to Stakeholders 29 Dec 2022
Development & Testing - Sprint 1
Sprint planning 2 Jan 2023
Development System Modules 3 Jan 2023 · 9 Jan 2023
Integrate System modules 10 Jan 2023 · 16 Jan 2023
System Testing 17 Jan 2023
Stakeholder review & Document issue 18 Jan 2023
Fix period 19 Jan 2023
Deploy / Sprint 1 end 20 Jan 2023
Development & Testing - Sprint 2
Backlog grooming 23 Jan 2023 · 24 Jan 2023
Sprint 1 retrospective 25 Jan 2023
Sprint planning 26 Jan 2023
Sprint 2 start 27 Jan 2023
Development System Modules 30 Jan 2023 · 2 Feb 2023
Integrate System Modules 3 Feb 2023 · 8 Feb 2023
System Testing 9 Feb 2023
Stakeholder review & Document issue 10 Feb 2023
Fix period 11 Feb 2023
Deploy / Sprint 2 end 12 Feb 2023
Implemntation
Final Review 15 Feb 2023
Document Handover 16 Feb 2023
Fri, 11/25/22 to Mon, 11/28/22

5.0 Risk Management

5.1 Risk Management Plan (Scope crepe)

- Most of the Project has risks but that can be managed before the start of the project by creating Risk Management Plan. Risk Management Plan shows how it can be control in the project. It can be done by making risk management activities, risk strategy and identifying the risk. Pekka and Timo (Sept. 2018)
- In this project we will be using Risk Assessment Method.

Name of Risks	Class of Risks	Identified Risks Date	Description of Risks	Level of Risks	Status
Clients Information Breach	This is Risk related to people	25/11/2022	If the Clients information is leaked the gym could face in legal action	High	The Status of Risk is not started yet.
Project related Risk (Time Management)	This is related to Project	26/11/2022	The duration of project might take longer	Medium	It has been almost finished
Risk Related to Payment	This is related to Payment gateway	27/11/2022	Some Payment options is not suitable for Gym clients (Direct Debit)	Low	It is under process
Risk Related to UI (Programming)	This is related to New Management System	26/11/2022	Clients and Admins are adaptive to previous design of the system they may not like new one	Medium	This is under process

Appendix

Figure 3
Connolly, R. and Hoar, R. (2018). Fundamentals of Web Development. 2nd ed. USA: Pearson Education.

Figure 1
Organizational chart- Creative common license holders
https://www.pexels.com/photo/man-sitting-with-laptop-computer-on-desk-and-lamp-1586996/
https://upload.wikimedia.org/wikipedia/commons/3/34/Elon_Musk_Royal_Society_%28crop2%29.jpg
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https://www.pexels.com/photo/happy-ethnic-woman-sitting-at-table-with-laptop-3769021/
https://commons.wikimedia.org/wiki/File:Muhammad_Ali_Navro%CA%BBzov.jpg

Reference

Indeed 2022, 'Average salary for IT positions', viewed 30 November 2022, https://au.indeed.com/career/project-manager/salaries/Melbourne-VIC.

Figure 2
Figure 4
Design using draw.io https://app.diagrams.net/

Figure 5
Design Team Gantt https://www.teamgantt.com/