

OMNIGYM APP

ITERATION THREE

CSC 4110: Software Engineering

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1. Omnigym App: Iteration 3

This document provides a comprehensive overview of our team's project, Omnigym Social App, showcasing the artifacts that demonstrate our development process, stakeholder involvement, and adherence to best practices in software engineering.

1.1 Proposal

Omnigym is a unique gym community-building social app that combines modern technology, user-friendly design, and high security standards to provide a seamless experience for both gym members and staff. Our concept addresses the needs of fitness enthusiasts and gym administrators alike, aiming to improve user engagement and increase profits for affiliated gyms. Our app offers gym members a platform to connect with others through messaging, friendly leaderboard competitions, shared fitness interests and routines, workout creation and tracking, and opportunities to celebrate each other's achievements—among many other features. Additionally, by incorporating member profiles, gym trainers now have a clear way to identify members and understand their fitness goals. This enhancement improves their ability to connect with members and boost sales for both the trainers and the gym. Furthermore, the gym benefits by fostering a community where members feel more comfortable interacting with one another, participating in gym-related events and activities, and remaining loyal after forming meaningful relationships.

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1.2 Why Choose Our Team?

- **Technical Excellence:** We leveraged a full-stack development approach using React Native + Expo for the frontend, Django for the backend, and Supabase/PostgreSQL for data management.
- **Scalability & Security:** Omnidash follows industry best practices for data protection, authentication security, and performance optimization to support a growing user base.
- **User-Centric Design:** Our UI/UX design is based on extensive user research and advertising strategies like color theory, ensuring an intuitive and attractive experience tailored to gym members and trainers.
- **Agile Development Process:** We implemented an iterative development approach using Scrum methodology, ensuring rapid feature deployment and continuous improvement.
- **Future Vision:** Our roadmap includes AI-powered fitness recommendations, a social networking feature, and real-time workout tracking to enhance engagement and personalization.

By selecting our team, you are choosing a dedicated, innovative, and well-rounded group of developers committed to delivering a high-quality, scalable, and user-friendly gym social app.

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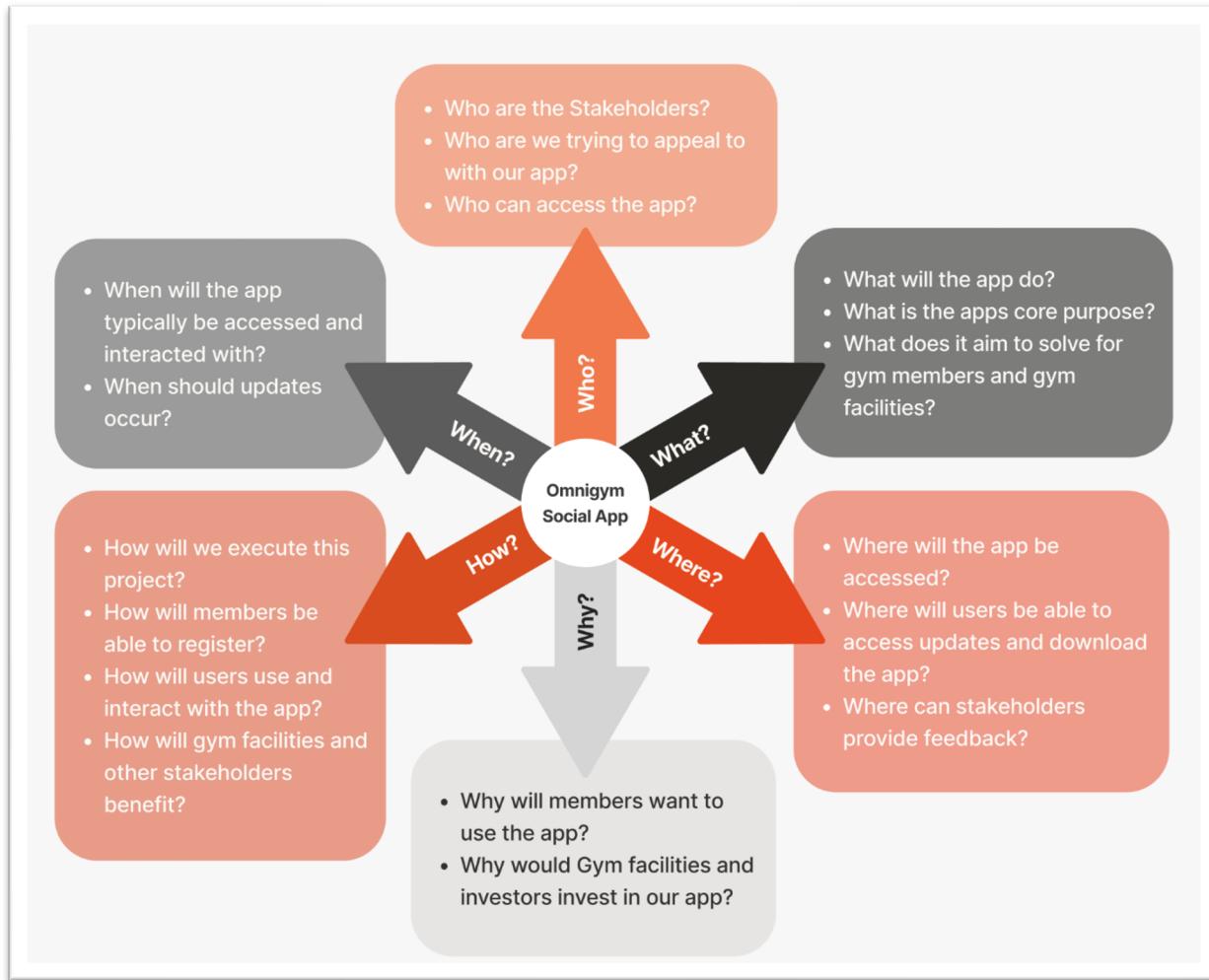
2. Project Artifacts

2.1 Idea Generation Final Draft

The final idea generation came from a process. We first started by playing the game two truths and a lie. After guessing each other's and getting to know each other we all had a common interest in to workout. This was not the final decision marker of our project idea but put us one step closer. After this we did our brainstorming and while presenting ideas, we all had a similar idea of a gym app, so we based it off of that app, implementing each of our ideas until we got our final draft of our idea. We used Edotor as a way to track our ideas and features. The revised diagram can be seen in Appendix A at the end of the document.

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2.2 Starburst Accord



2.3 Development Model

We adopted an Agile-Scrum development model to ensure that each task is assigned to the appropriate team member. The model that each of the tasks laid out from backend to front end. The backend consists of Django while the front end is Expo React Native. Both utilize the relational database and secure data storage Supabase through API queries. With the structure set

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forth we were able to get everyone assigned to certain spots that they are proficient in allowing a smooth process.

2.4 Requirements Matrix

ID	Requirement	Type	Related Features	Priority	Validation	Status
Fun-01	Two-process user registration with gym member verification	Functional	Registration Module	High	Unit and Scenario Testing	Complete
Fun-02	User login page with password toggle viewing	Functional	Authentication	High	Unit and Scenario Testing	Complete
Fun-03	User profile page	Functional	Profile Modules	High	Unit and Scenario Testing	Complete
Fun-04	Setup bottom navigation bar for user convenience	Functional	Navigation	High	Unit Testing	Complete
Fun-05	Make creation of groups and events	Functional	Event Management Module	Medium	Scenario Testing	Complete
Fun-06	Implement full Supabase integration (register, forgot password)	Functional	Navigation, Authentication	High	Scenario Testing	Complete
Fun-07	Allow customizable settings after registration (i.e. fitness metrics)	Functional	Profile Modules	High	Scenario Testing	Complete

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Fun-08	Enable users to log workouts and track routines	Functional	Workout Tracking	High	Scenario Testing	Semi-complete; Needs improvements on UI/UX design
Fun-09	Setup role-based access (member, trainer, admin)	Functional	Authentication, Admin Panel	High	Unit Testing	Semi-Complete; Admin login not fully functional
Fun-10	Display leaderboards for submitted PRs	Functional	Competition Module	Medium	Unit Testing	Complete
Fun-11	Enable messaging between members	Functional	Messaging Module	Medium	Scenario Testing	Complete
Fun-12	Enable group and event submissions form	Functional	Event Management	Low	Scenario Testing	Not Started
Fun-13	AI-based workout recommendations (future feature)	Functional	Workout Tracking	Low	Scenario Testing	Not Started
Fun-14	Upload profile image and store into Supabase	Functional	Profile Modules	High	Unit Testing	Complete

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Fun-15	Include auto-calculated Wilks Score using lifting metrics	Functional	Profile and Competition Modules	Medium	Unit Testing	Complete
Fun-16	Include auto-calculated running pace from running metrics	Functional	Profile and Competition Modules	Medium	Unit Testing	Complete
Fun-17	Create a metric graph for the profile	Functional	Profile Modules	Medium	Unit Testing	Complete
Fun-18	Integrate a music player into user profile and settings	Functional	Profile Modules	Low	Unit Testing	Complete
Fun-19	Setup database tables and RLS policies	Functional	All Modules, Authentication	High	Scenario Testing	Complete
Fun-20	Display Leaderboard archives of previous winners	Functional	Competition Module	Low	Unit Testing	Complete
Fun-21	Create user form page for support and feedback	Functional	Technical Support, All Modules	High	Unit Testing	Complete
Fun-22	Create homepage for main page navigation	Functional	All Modules	High	Unit Testing	Complete
Fun-23	Create admin page to approve leaderboard submissions	Functional	Competition Module	Low	Unit Testing	In progress
Fun-24	Create admin upload option to	Functional	Registration Module	Medium	Scenario Testing	In progress

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	update memberships					
Fun- 25	Create event approval option for admin form page	Functional	Event Module	Low	Unit Testing	In progress
Fun- 26	Create admin home page	Functional	Admin Profile Module	Medium	Unit Testing	Comple te
Fun- 27	Create admin forms page	Functional	Admin Module	Low	Unit Testing	Incompl ete
Fun- 28	Create admin settings page	Functional	Admin Registration Module	Low	Scenario Testing	Incompl ete
Non- 01	Deliver a responsive and intuitive user interface	Non- Functional	Frontend (Native React)	High	Usability Testing	Comple te
Non- 02	Ensure secure handling of user data (authentication, encryption)	Non- Functional	Backend (Supabase, Security Modules)	High	Penetration Testing; Git Guardian Validation	Comple te
Non- 03	Ensure scalable backend to support growing user base	Non- Functional	Backend (Supabase, Firebase)	High	Load Testing	Comple te
Non- 04	Provide smooth performance on both iOS and Android	Non- Functional	Frontend Optimization	High	Performanc e Testing	Comple te
Non- 05	Optimize app load time (under 3 seconds for core screens)	Non- Functional	Frontend Optimization	Medium	Load Testing	Comple te
Non- 06	Ensure offline data resilience for	Non- Functional	Local Storage	Medium	Scenario Testing	Incompl ete

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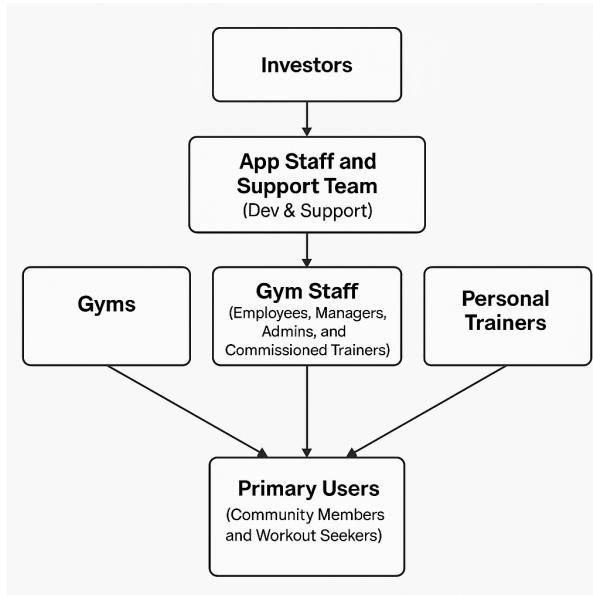
	local workout logging					
Non-07	Maintain simple, clean navigation across all modules	Non-Functional	Navigation/Routing	High	Usability Testing	Complete
Non-08	Ensure daily active use is encouraged via notifications	Non-Functional	Notifications Module	Medium	Usability Testing	Incomplete
Non-09	Ensure easy maintainability and future feature expansion	Non-Functional	Backend Codebase	Medium	Code Review	Complete
Non-10	Guarantee GDPR compliance for user data privacy	Non-Functional	Data Security	Low	Legal Review	Complete

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2.5 Stakeholders

Key stakeholders include:

- **Gyms:** Gym owners/companies
- **Primary Users:** Community members at each gym and people seeking workout buddies, fitness advice, workout guidance, and motivation.
- **Personal Trainers:** Depending on the gym, some gyms' staff trainers and others allow outside professional's access to their facilities. To connect and interact with gym members.
- **Gym Staff:** Gym employees, managers, admins, and commissioned trainers.
- **Investors:** To provide funding for the app maintenance and its staff.
- **App Staff and Support Team:** For customer service and programming updates.



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2.6 Stakeholder Requirements Matrix

Stakeholder Requirements Matrix				
ID	Requirement	Stakeholders Benefiting	How it Meets Stakeholder Requirements	
Fun-01	Two-process user registration with gym member verification	Primary Users, Gym Staff, Gyms, and App Staff/Support Team	General app functionality and ongoing usability improvements. Exclusive access through affiliated gyms.	
Fun-02	User login page with password toggle viewing	Primary Users, Gym Staff, Gyms	Allows member verification, streamlined onboarding, and enhanced security.	
Fun-03	User profile page	Primary Users, Gym Staff, Gyms	Allows member personalization and encourages member connections.	
Fun-04	Setup bottom navigation bar for user convenience	Primary Users, Personal Trainers, App Staff and Support Team	Critical for smooth user experience and reducing navigation-related support issues.	
Fun-05	Make creation of groups and events	Primary Users, Gym Staff, Personal Trainers	Promotes community engagement and easier organization of events.	
Fun-06	Implement full Supabase integration (register, forgot password)	Primary Users, Gym Staff, Gyms	Allows member verification, robust data storage, and enhanced security.	
Fun-07	Allow customizable settings after registration (i.e. fitness metrics)	Primary Users, Gym Staff, Personal Trainers	Enhances user satisfaction by allowing personalized profiles and provides fitness insight for personal trainers and gym staff.	
Fun-08	Enable users to log workouts and track routines	Primary Users, Personal Trainers, Gym Staff	General app functionality and ongoing usability improvements.	

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Fun-09	Setup role-based access (member, trainer, admin)	Gym Staff, Personal Trainers	Ensures appropriate access controls and operational security.
Fun-10	Display leaderboards for submitted PRs	Primary Users, Personal Trainers, Gym Staff	Promotes engagement, motivation, and accountability for members looking to improve fitness lifestyle.
Fun-11	Enable messaging between members	Primary Users, App Staff, Personal Trainers	General social app functionality and encourages member connections.
Fun-12	Enable group and event submissions form	Primary Users, Gym Staff, Personal Trainers, Gyms	Promotes community engagement and easier organization of events.
Fun-13	AI-based workout recommendations (future feature)	Primary Users, App Staff, Personal Trainers, Gyms, and Investors	Innovative app feature to promote ongoing usability and assist trainers during routine creations.
Fun-14	Upload profile image and store into Supabase	Primary Users, Gym Staff, Personal Trainers	Allows member verification during meetups, offers users a way to display physical fitness improvements
Fun-15	Include auto-calculated Wilks Score using lifting metrics	Primary Users, Gym Staff, Personal Trainers	Convenient for member metrics overview and contest submissions.
Fun-16	Include auto-calculated running pace from running metrics	Primary Users, App Staff and Support Team	General app functionality and ongoing usability improvements.
Fun-17	Create a metric graph for the profile	Primary Users, Gym Staff, Gyms	Allows member verification, streamlined onboarding, and enhanced security.
Fun-18	Integrate a music player into user profile and settings	Primary Users, Gym Staff, Gyms	Allows member verification, streamlined onboarding, and enhanced security.

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Fun-19	Setup database tables and RLS policies	Primary Users, App Staff and Support Team	Security protocols and driving general app functionality for user data.
Fun-20	Display Leaderboard archives of previous winners	Primary Users, App Staff and Support Team	General app functionality and ongoing usability improvements.
Fun-21	Create user form page for support and feedback	Primary Users, App Staff and Support Team	General app functionality and ongoing usability improvements.
Fun-22	Create homepage for main page navigation	Primary Users, Personal Trainers, App Staff and Support Team	Critical for smooth user experience and reducing navigation-related support issues.
Fun-23	Create admin page to approve leaderboard submissions	Gym Staff, Gyms	Ensures appropriate access controls and operational security.
Fun-24	Create admin upload option to update memberships	Gym Staff, Gyms	Ensures appropriate access controls and operational security.
Fun-25	Create event approval option for admin form page	Primary Users, Gym Staff, Personal Trainers. Gyms	Promotes community engagement and easier organization of events.
Fun-26	Create admin home page	Gym Staff, Gyms	Ensures appropriate access controls and operational security.
Fun-27	Create admin forms page	Gym Staff, Gyms	Ensures appropriate access controls and operational security.
Fun-28	Create admin settings page	Gym Staff, Gyms	Ensures appropriate access controls and operational security.
Non-01	Deliver a responsive and intuitive user interface	Primary Users, Personal Trainers, App Staff Support Team	Critical for smooth user experience and reducing navigation-related support issues.

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Non-02	Ensure secure handling of user data (authentication, encryption)	Primary Users, Gyms, Investors	Compliance with security standards, reducing data breach risks and legal liabilities.
Non-03	Ensure scalable backend to support growing user base	App Staff and Support Team, Investors	Ensures robust and scalable backend support, essential for future growth.
Non-04	Provide smooth performance on both iOS and Android	Primary Users, App Staff and Support Team	General app functionality and ongoing usability improvements.
Non-05	Optimize app load time (under 3 seconds for core screens)	Primary Users, App Staff and Support Team	General app functionality and ongoing usability improvements.
Non-06	Ensure offline data resilience for local workout logging	Primary Users, App Staff and Support Team	General app functionality and ongoing usability improvements.
Non-07	Maintain simple, clean navigation across all modules	Primary Users, Personal Trainers, App Staff and Support Team	Critical for smooth user experience and reducing navigation-related support issues.
Non-08	Ensure daily active use is encouraged via notifications	Primary Users, App Staff and Support Team	General app functionality and ongoing usability improvements.
Non-09	Ensure easy maintainability and future feature expansion	Primary Users, Gym Staff, App Staff and Support Team	General app functionality, ongoing usability improvements and feature developments.
Non-10	Guarantee GDPR compliance for user data privacy	Primary Users, App Staff and Support Team	General app functionality and ongoing usability improvements.

Stakeholder Requirements Summary		
Stakeholder	Key Requirements	Why It Matters

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Gyms	Fun-02, Fun-03, Fun-06, Fun-09, Fun-14, Fun-17, Fun-18, Fun-23, Fun-24, Fun-26, Fun-27, Fun-28, Non-02	Allows member verification, registration, and enhanced security. Guarantees appropriate access controls and operational security. Compliance with security standards, reducing data breach risks and legal liabilities.
Primary Users	Fun-01, Fun-02, Fun-03, Fun-04, Fun-05, Fun-06, Fun-07, Fun-08, Fun-10, Fun-11, Fun-12, Fun-13, Fun-14, nan, Fun-15, Fun-16, Fun-17, Fun-18, Fun-19, Fun-20, Fun-21, Fun-22, Fun-25, Non-01, Non-02, Non-04, Non-05, Non-06, Non-07, Non-08, Non-09, Non-10	General app functionality and ongoing usability improvements. Allows member verification, streamlined onboarding, and enhanced security. Critical for smooth user experience and reducing navigation-related support issues. Promotes community engagement and easier organization of events. Enhances user satisfaction by allowing personalized profiles. Compliance with security standards, reducing data breach risks and legal liabilities.
Personal Trainers	Fun-04, Fun-05, Fun-09, Fun-12, Fun-22, Fun-23, Fun-24, Fun-25, Fun-26, Fun-27, Fun-28, Non-01, Non-07	Critical for smooth user experience and reducing navigation-related support issues.; Promotes community engagement and easier organization of events. Ensures appropriate access controls and operational security.
Gym Staff	Fun-02, Fun-03, Fun-05, Fun-06, Fun-09, Fun-12, Fun-14, Fun-17, Fun-18, Fun-23, Fun-24, Fun-25, Fun-26, Fun-27, Fun-28	Allows member verification, streamlined onboarding, and enhanced security. Promotes community engagement and easier organization of events. Ensures appropriate access controls and operational security.
Investors	Non-02, Non-03	Compliance with security standards, reducing data breach risks and legal

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		liabilities. Ensures robust and scalable backend support, essential for future growth.
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Most requirements overlap between Gym Members and Trainers, reflecting our app's community-driven design philosophy. However, scalability and backend security remain critical non-functional priorities for Gym Owners and the Development Team to ensure long-term app success.

2.6 Toolsets Created

Design and Database Management Tools:

- **Figma** – Used for UI/UX design and prototyping.
- **Edotor** – Used for idea generation during initial concept creation, both for the app concept and for the pages and features we wanted implemented in the app.
- **Supabase** – An open-source database providing PostgreSQL, user authentication, file storage, image storage, statistical overviews and graphs, etc.
- **Draw.io (diagrams.net)** – Used to create UML diagrams for visualizing system architecture, workflows, and relationships between components.

Frontend:

- **React Native + Expo** – Used for creating native mobile apps using HTML, CSS, JavaScript and React. React Native enables cross-platform development with a single codebase, and Expo simplifies the process with tools for building, testing, and deploying apps faster.

Backend:

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- **Django (Python)** – Chosen as the web framework for handling API requests, managing backend logic, and integrating with the database to power the application's server-side functionality.

Database:

- **Supabase** – Used as the backend-as-a-service platform for managing the PostgreSQL database handling authentication, and providing real-time data and API access for applications

Development & Collaboration Tools:

- **Microsoft Teams** – Used for team communication and collaboration.
- **GitHub** – Version control system for tracking and managing code changes.
- **Excel Gantt Charts** – Utilized for project scheduling and progress tracking.
- **MS Planner** – Used for task management and team coordination.
- **Online Scrum Form Template** – This is the form the scrum master used to report meeting tasks, completions, and goals as a team. The online scrum template can be found on the *following page*.

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WEEK

Client: -- NULL --

Product Owners: The Dream Team (Group 13) **Scrum Master:** Kliman Darawish

Sprint:	Date:	MM/DD/YYYY	Time:	00 hr 00 min
Last Sprint:	Date:	MM/DD/YYYY	Time:	00 hr 00 min
Attendees:	Kliman Darawish		Abdulla Maruf	
	Robert Simovski		Jawad Rashid	
	Viktor Gjorgjevski		Violet Yousif	
Achievements:				

Product Backlog: (In-progress tasks and by whom, forms to be created)

<<<<state GP1 goals here>>>

state in-progress tasks here and by whom

form creation, description

Sprint Goals: (New requirements/events, existing goals)

new requirements / events, if any

existing goals: front end, application coding, cc, pres, written

Team Availability: (Tasks and research given to members on individual time)

<<Example: John James will research Design Ideas for Sales Websites>>

Assign Backlog Items: (Assigned tasks pertaining to completion of Backlog goal)

<<Example: Suzie Q will work on Front End - reqt 1e>>

Retrospective: (What went right? What went wrong?)

What went right?

What went wrong?

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2.7 Predicted Process Model

1. Agile Development:

Because of its adaptability, user-centric methodology, and capacity to change to meet the changing demands of trainers and gym clients, we decided to employ the Agile Model for our project. Agile makes incremental delivery possible, so we can release important features like fitness monitoring and gym scheduling early while still making constant improvements to the app.

Important advantages of this strategy include:

- Regular sprint reviews guarantee alignment with user needs and eliminate unnecessary features. This promotes frequent feedback and collaboration.
- Risk Mitigation: We identify and fix problems early by testing and improving features every sprint.
- Faster Time to Market: We can deliver value to users sooner by delivering in small increments.
- Continuous Improvement: Over time, we are able to improve the app and our development process thanks to Agile's iterative nature.
- Adaptability to Industry Trends: Agile allows us to incorporate new features, such as social challenges, as they appear in the ever-changing fitness sector.
- Agile guarantees that our Fitness Leaderboard App stays useful, effective, and in line with user expectations by placing a strong emphasis on transparency, quality assurance, and reactivity.

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2.8 Scrum/Sprint Records and Meeting Minutes:

For easier viewability and organization, the weekly scrum meeting records can be found in the Appendix C section located at the end of the documentation.

2.9 Process Framework

Our project follows an **Agile-Scrum framework** integrated with CI/CD and automated testing to ensure a smooth and efficient development process.

Scrum-Agile Principles:

Our main development methodology is Agile-Scrum, with a focus on:

- Iterative Development: Work is organized into sprints, enabling incremental progress and continuous improvement.
- Regular Stakeholder Feedback: Consistent sprint reviews guarantee that the application adapts to user requirements.
- Cross-Functional Collaboration: To produce high-quality features, developers, designers, and stakeholders collaborate closely.
- Flexibility and Adaptability: The app's relevance can be maintained by adjusting priorities in response to user feedback.

CI/CD Implementation (Continuous Integration & Continuous Deployment):

To streamline development and deployment, we integrate CI/CD pipelines, ensuring that:

- Code changes are automatically tested and merged, reducing integration issues.
- New features and bug fixes are deployed quickly, keeping the app updated.
- Development remains agile, allowing for frequent and stable releases.

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Automated Validation and Testing

To ensure dependability and code quality, we used automated testing:

- Unit testing makes sure that each component works as it should.
- Integration testing to confirm that several modules worked together seamlessly.
- End-to-end testing to prevent any problems by simulating actual user interactions.
- Performance testing to evaluate how responsive and stable the application is when loaded.

Tooling and Workflow Support:

- GitHub Projects: Used to manage sprint tasks and assign ownership.
- MS Teams + MS Planner: For team coordination, daily updates, and sprint planning.
- Supabase CI Hooks: Used for database update testing and deployment staging.
- Expo CLI & React Native Debugging Tools: Supported frontend testing in development mode.
- GitHub Actions (optional): For CI/CD automation workflows and build verification.

Sprint Cadence and Team Rituals:

- Sprint Planning: To assign tasks and establish priorities, every Monday.
- Daily Check-ins: Microsoft Teams asynchronous updates.
- Sprint Retrospectives: Held right after reviews to evaluate and pinpoint areas for improvement.

Process Challenges and Adaptations:

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The team had trouble with variable local settings and merge conflicts in the early sprints.

Consequently, we developed backup branches prior to significant merges, standardized environments using .env templates, and provided Git training videos.

Versioning Strategy:

To identify stable milestones, code was iteration-tagged (e.g., v1.0, v2.1-beta) using GitHub Releases.

As a result, the team was able to maintain consistent deployment references and roll back if necessary.

Agile-Scrum, CI/CD, and automated testing are all combined in our process framework to guarantee a flexible yet disciplined development workflow. This method allows for high-quality software that adapts to the changing needs of trainers and gym consumers, as well as quick feature creation and ongoing improvement.

2.10 Document Control

Document Control Tools			
Tools:	Purpose:	Managed by:	Location:
Figma	Prototype Designs	Violet	Connected to Teams App Navbar
MS Planner	Task Creation. Check off fulfilled tasks. Setup collaboration between members.	Jawad and Violet	Integrated into Teams
GitHub	Merge Messages, Discussion topics, version control	Violet	OmniGymSocialApp Repository

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SharePoint	Documents and Projects	Jawad	Microsoft Office Shared folders
Microsoft Teams	Pinned Chats for due dates, references, documents, meeting calls, etc.	Jawad and Violet	Sidebar icon shows pinned files and comments. Some apps can be located in top Navbar of Teams.
Violet's GitHub Video Shorts	Tutorials on using Git with GitHub	Violet	Shared on Teams. Can locate in shared files and pinned comments.
Visual Studio Code + GitHub Desktop	Version control, branch creations, code documentation	Jawad and Violet	Individual branches using VSCode + GitHub and Git. Version Control with GitHub. Purpose stated for each VSCode file in code.

Primary Document Control Files		
Iter. #	Document Name:	Location:
1	Brand Designs	GitHub Brand Folder. MS Teams files.
1	Project/Iteration 1	Microsoft SharePoint Folder
1	Edotor Diagram	Project Management Excel Doc in SharePoint Folder, or Navbar on MS Teams
1	Omnigym Project Pre-Release 1	GitHub Pre-Release list Versions: v0.1.1-alpha, v0.1.2-alpha
1, 2	Meeting Minutes	Microsoft SharePoint Folder
2	Quality Manual	Microsoft SharePoint Folder
2	Project/Iteration 2	Microsoft Office Shared folders
2	Omnigym Project Pre-Release 2	GitHub Pre-Release list. Versions: v0.1.3-alpha, v0.1.4-alpha

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2.11 Waste Log

Waste Type			
Date	Description of Waste	Impact	Action Taken or Suggested Fix
Frontend			
3/5/2025	Rebuilt login screen layout 2 times	5 hours lost	Finalized mockups before coding
3/7/2025	Misused useEffect causing infinite loop	App crash, 1 day delay	Added correct dependency array
3/10/2025	Styles inconsistent due to manual inline styles	Time wasted fixing styles	Adopted centralized theme with StyleSheet
3/12/2025	Assets not optimized (e.g., large images)	Slow performance	Compressed images and used Image.prefetch
3/14/2025	Wrong navigation stack used (Stack vs Tab)	Had to refactor entire nav	Reviewed React Navigation docs beforehand
3/16/2025	Overuse of re-renders due to improper state usage	Laggy screens, 2 hrs debugging	Used useMemo and React.memo where needed
Backend			
3/6/2025	Forgetting to set Supabase row-level security (RLS)	Exposed data temporarily	Created default RLS policy template
3/8/2025	Misconfigured Supabase storage bucket permissions	Uploads failed	Reviewed and documented permission setup
3/11/2025	Using too many rpc() calls for simple queries	Overcomplicated backend	Replaced with direct .select() queries
3/13/2025	Schema changes broke existing client-side logic	Caused app crash	Set up versioning for table schemas
3/15/2025	Delayed debugging due to missing Supabase logs	3 hrs wasted	Enabled full query and auth logging

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4/02/2025	Exceeded Supabase row limit on free tier	App failed to insert new records	Cleaned up stale data and upgraded to paid tier
4/20/2025	Authentication failed for valid users due to restrictive RLS policy	Blocked user access	Reviewed and adjusted auth.uid() policy

2.12 Quality Policies

In Omnidgym, our development quality policy revolves around the user, where every line of code and every architectural decision contributes directly to the user experience. Through the application of bleeding-edge technology such as React Native for a responsive mobile experience, Django for robust backend support, and Supabase for optimal database management, we build an app that is friendly to use and full of features. Our commitment to security never wavers utilizing strong encryption protocols and conducting regular security audits guarantees user data is always safe and in keeping with industry best practices. Our infrastructure is likewise scalability and performance-optimized, guaranteeing that as our community grows, the app will remain fast, responsive, and trustworthy.

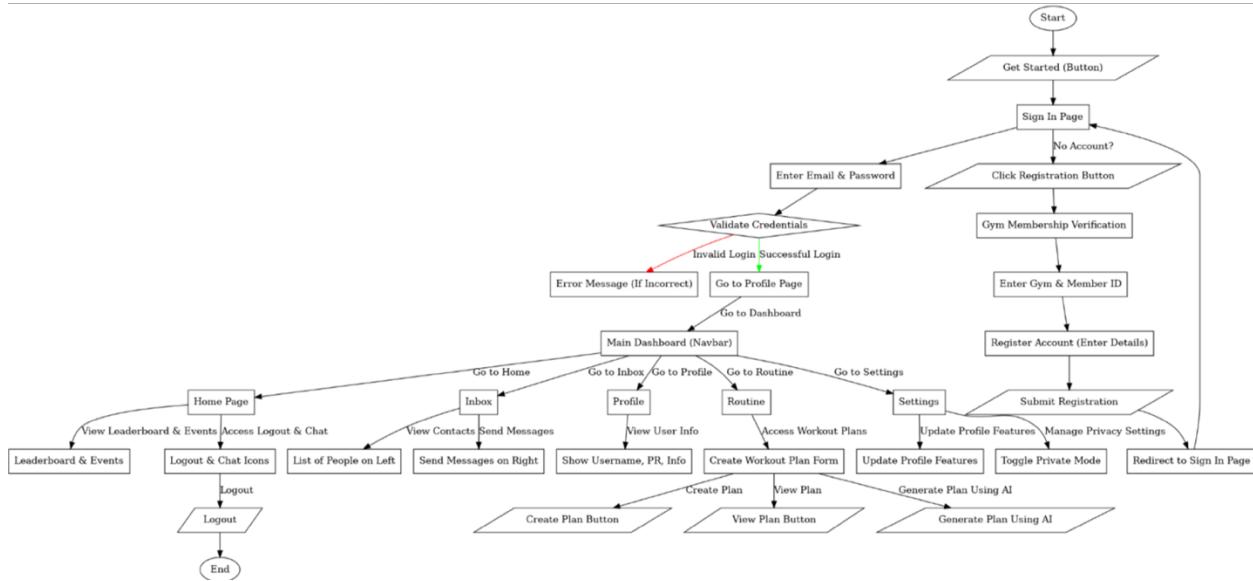
We also focus on agile development practices and full transparency throughout our project life cycle. Our Scrum cycle allows us to iterate fast against stakeholder feedback, enhance functionalities, and maintain documentation clean at every step. This not only creates effective communication among end-users, stakeholders, and developers but also establishes trust and accountability. In the future, Omni gym keeps aiming to innovate and develop by venturing into edge-cutting features such as integration of AI and real-time monitoring, further enhancing the

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user interface and offering novel forms of engagement with the community at the gym. Through continued incorporation of feedback from users, we ensure that the app grows according to the fitness enthusiasts and the gym attendants' specifications, ultimately having a dynamic, interactive, and safe community platform.

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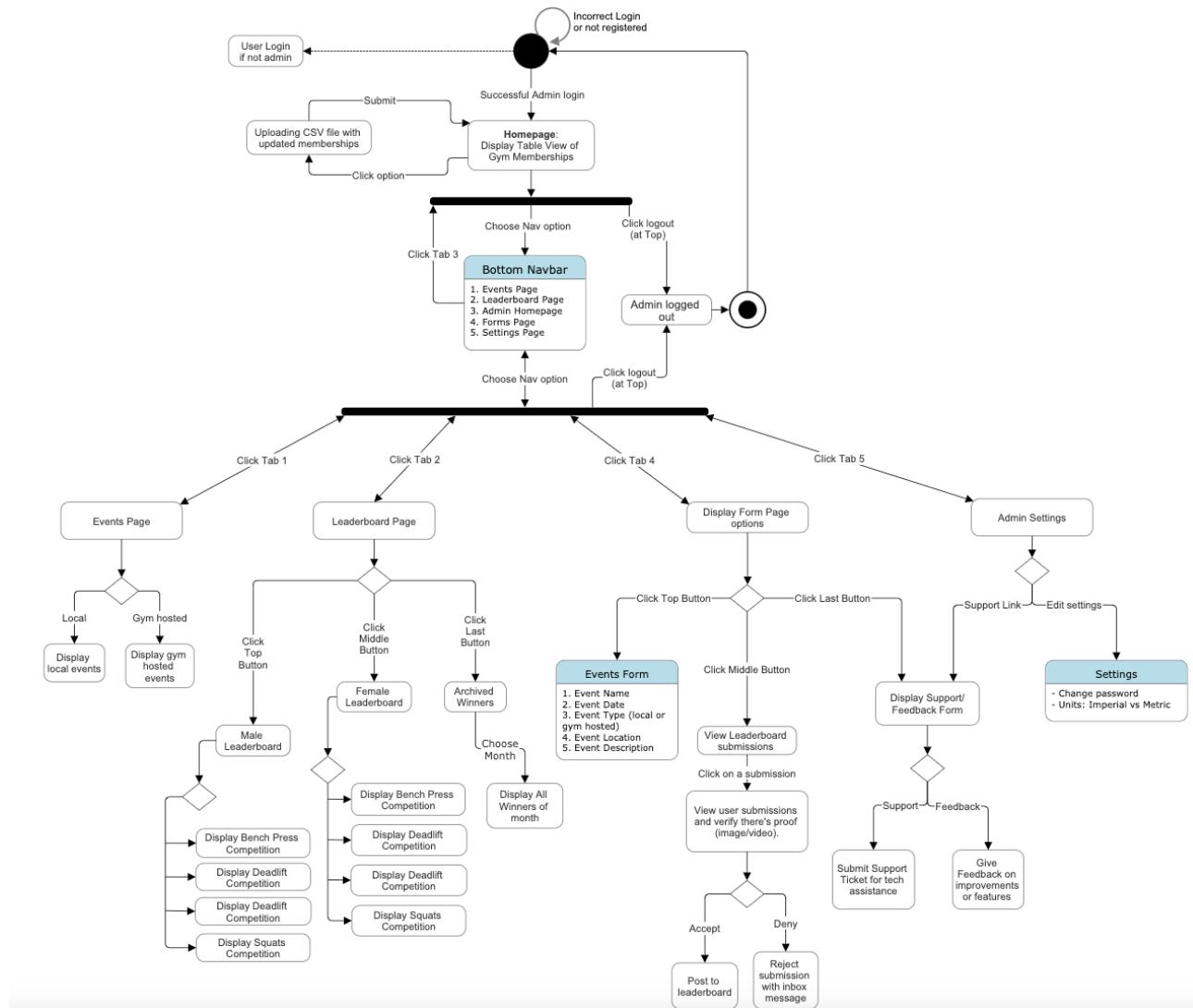
2.13 Activity Diagram



The activity diagram is a visual representation of the user flow within the gym membership application. From the activity diagram (orange chart) in Appendix A, you can see an overview of the user input and pages. The more detailed diagram (above) provides a more functional view of the main navigation paths with buttons. The process starts with users opening "Get Started" and logging in or registering a new account, including gym membership verification. When the login credentials are input, they are authenticated by the system and allowed into the profile/dashboard or display an error message when incorrect. The main dashboard is made up of navigation elements for the home page, inbox, profile, workouts, and settings, where users can create and view workout plans. Along with this, the users can also communicate through the inbox by viewing contacts and messaging and attending and viewing events through the leaderboard and events menu on the home page.

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The next activity diagram (below this section) is for the admin pages. It follows the navigation and functional specifications that a registered admin would follow when logging in to the app with their admin-provided email. Admins cannot register on their own. The admin emails are provided by the Omnidgym team and given permissions through Supabase.



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2.14 UML Diagram

To support the continued development of the Omnidgym Social App, a UML diagram was created and updated to reflect the second iteration of the project to reflect the system's evolving architecture and features. This diagram helps visualize how different components of the application interact, clarifies responsibility among user roles, and guides both backend logic and frontend design. By maintaining and refining our UML model, the team can uphold consistency between planning, implementation, and future scalability. The updated diagram can be found in Appendix B of this documentation.

2.15 Brandy Identity

2. 1. Logo Designs

The first design was originally created on the Procreate drawing app by Violet. Due to font constraints in Figma, the logo design changed to the bottom two.



Logo Font: Rubik, light

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3. 2. Color Palette

Color 1	Color 2	Color 3			
HEX	ED7446	HEX	252422	HEX	585858
RGB	237, 116, 70	RGB	37, 36, 34	RGB	88, 88, 88
HSB	17, 70, 93	HSB	40, 8, 15	HSB	0, 0, 35
CMYK	0, 51, 70, 7	CMYK	0, 2, 8, 85	CMYK	0, 0, 0, 65
NAME	Mandarin	NAME	Eerie Black	NAME	Davys Grey

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	Color 4	Color 5
HEX	D8D7D4	HEX
RGB	216, 215, 212	RGB
HSB	45, 2, 85	HSB
CMYK	0, 0, 1, 15	CMYK
NAME	Timberwolf	Cultured

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3. Use Cases & User Stories

The following use cases and user stories reflect core features prioritized in Iteration 2 of the Omnidigm Social App. These user interactions are designed to promote engagement, social connection, and functional value for gym members and staff. Each use case captures the expected flow of system behavior from the perspective of the user.

3.1 Use Cases

4. Use Case 1: View Leaderboard

Actor: Gym Member

Goal: View personal ranking among members at their gym

Precondition: User is logged in and belongs to a verified gym

Main Flow:

1. User logs into the app
2. User navigates to the “Leaderboard” tab
3. System displays the leaderboard for the user’s affiliated gym

5. Use Case 2: Submit Personal Record (PR)

Actor: Gym Member

Goal: Submit a personal best for a specific lift (e.g., squat, bench press)

Precondition: User is authenticated

Main Flow:

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1. User navigates to the “Submit PR” section
2. User selects the lift type and enters weight and reps
3. System saves the entry and updates the gym leaderboard accordingly

6. Use Case 3: Participate in Gym Event

Actor: Gym Member

Goal: Sign up for an upcoming gym-hosted event (e.g., competition, meet-up)

Precondition: The event is already published by the gym admin

Main Flow:

1. User browses the “Events” tab
2. User selects an upcoming event
3. User clicks “Join Event”
4. System registers the user and confirms participation

7. Use Case 4: Post to Social Feed

Actor: Gym Member

Goal: Share workout updates or photos with other gym members

Precondition: User has a verified gym membership

Main Flow:

1. User opens the “Social Feed” tab
2. User creates a post (text, photo, or both)
3. System adds the post to the feed visible to other members at the same gym

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8. Use Case 5: Create Gym Event

Actor: Gym Admin

Goal: Create and publish a new event for gym members

Precondition: Admin is logged in with elevated permissions

Main Flow:

1. Admin navigates to the “Create Event” section
2. Admin inputs event details (title, description, date, location)
3. System publishes the event and notifies relevant gym members

3.2 User Stories

- **User Story 1:**

“As a gym admin, I want to create and manage gym events so that I can promote member participation and foster a stronger gym community.”

- **User Story 2:**

“As a gym member, I want to share my workout updates and photos so that I can connect and engage with other members at my gym.”

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4. User Guide

4.1 Installation Overview

This guide will help users download the project, install dependencies, and run the app using Expo React Native with Django and Supabase. Users can compile and view the app on Android and iOS simulators (iOS only runs on Apple products) using Expo to run the simulations through VSCode. The instructions are below and in the ReadMe section of the GitHub Repository.

4.2 Setup Guide

1. Prerequisites for All Platforms

- [Node.js](#) (includes npm)
- [Python 3.11+](#)
- Git ([Download](#))
- Expo CLI (optional):

```
npm install -g expo-cli
```

9. 2. Platform Specific Requirements

Use the following matrix to download the installation dependencies based on your operating system:

Tool / Requirement	Windows	macOS / WSL (Linux)	Notes

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Node.js	<input checked="" type="checkbox"/> nodejs.org	<input checked="" type="checkbox"/> nodejs.org	Required for React Native / Expo
Expo CLI / npx expo	<input checked="" type="checkbox"/> npx expo start	<input checked="" type="checkbox"/> npx expo start	No need to install globally; CLI optional
Watchman	<input checked="" type="checkbox"/> Not needed	<input checked="" type="checkbox"/> brew install watchman(macOS only)	Improves live reload; not supported on Windows
Python 3.11+	<input checked="" type="checkbox"/> python.org	<input checked="" type="checkbox"/> brew install python@3.11 (optional)	Required for Django backend
Pip + Virtualenv	<input checked="" type="checkbox"/> Included with Python	<input checked="" type="checkbox"/> Included / install via brew	For managing backend dependencies
PostgreSQL (Supabase)	<input checked="" type="checkbox"/> Supabase handles DB remotely	<input checked="" type="checkbox"/> Supabase handles DB remotely	No local installation needed
Android Studio	<input checked="" type="checkbox"/> Required for emulator testing	<input checked="" type="checkbox"/> Required for Android testing	iOS testing on Mac only
iOS Simulator	<input checked="" type="checkbox"/> Not available	<input checked="" type="checkbox"/> Xcode required from App Store	iOS development requires macOS
Git	<input checked="" type="checkbox"/> git-scm.com	<input checked="" type="checkbox"/> Included or install via Homebrew	For cloning the project repository
Homebrew	<input checked="" type="checkbox"/> Not applicable	<input checked="" type="checkbox"/> /bin/bash -c "\$(curl ...)"	Optional; helpful for installing tools like Watchman or Python

4.3 Project Installation

After completing and verifying the above is installed for your operating system, proceed with the steps below.

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10.Clone the Repository

```
git clone https://github.com/yourusername/OmniGymSocialApp.git
cd OmniGymSocialApp
```

11.Frontend Setup (React Native + Expo)

```
cd Fullstack/Frontend
npm install
npx expo start          # Starts Expo server
# OR:
npx expo start --clear # Clears cache and starts server
```

Optional (macOS only):

```
brew install watchman    # Fast refresh for React Native
```

12.Backend Setup (Django + Supabase)

```
cd ../Backend
python -m venv venv
# macOS / Linux:
source venv/bin/activate
# Windows:
venv\Scripts\activate
```

Install Dependencies:

```
pip install -r requirements.txt
```

Migrate database and run server:

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```
python manage.py makemigrations
python manage.py migrate
python manage.py runserver
```

Create a superuser

```
python manage.py createsuperuser
```

13. Supabase Integration

Create .env file in the Backend/ folder

```
SUPABASE_DB_URL=your_supabase_database_url
SUPABASE_API_KEY=your_supabase_service_role_key
```

*Note: Replace values with actual credentials from your Supabase dashboard. Tables can be found below.

Test Supabase Connection

```
python test_connection.py
```

More info: [Supabase Guide](#)

14. Troubleshooting:

- Ensure your Node.js and npm versions meet the minimum requirements.
- Confirm that Android Studio (and the Android SDK) and Xcode (Mac only) are correctly installed and configured.
- Make sure the Expo CLI is installed globally and you're using the latest version.

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- For further assistance, refer to the React Native Documentation and the Expo Documentation.

4.2 Licensing

Omnigym Social App is provided under a proprietary software license designed specifically for gym members. The key licensing details include:

- Authorized Use:

The app is licensed for personal use only by individuals with an active, verified membership at Omnidgym-affiliated gyms.

- Usage Limitations:

- Redistribution, resale, or sublicensing of the app (or any derivative content) is strictly prohibited.
- Reverse-engineering, decompiling, or otherwise modifying the app's software is not permitted without explicit written consent from the owners.

- Open-Source Components:

Omnidgym social app incorporates various open-source libraries. Users must comply with the terms of these open-source licenses as indicated in their project's license file.

4.3 Operator and Subcontractor Indemnity

To protect the developers and associated parties, the following indemnity provisions apply:

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Indemnification Clause:

Users agree to indemnify and hold harmless the developers, operators, and any subcontractors involved in Omnidigm Social App from any claims, damages, or liabilities that arise from:

- Unauthorized use or modifications of the app.
- Misuse of the software leading to data breaches or security incidents.
- Any third-party claims related to content posted or modifications made by the user.

Liability Limitations:

The developers and operators are not liable for damages or losses arising from:

- Security breaches, including those resulting from user error or external cyberattacks.
- Third-party modifications or integrations that deviate from the approved project configuration.

4.4 Summary of User Agreement

The Omnidigm social app User Agreement sets forth the terms and conditions for using the app, which are summarized below:

- Membership and Access:
 - Only users with a verified membership from an Omnidigm-affiliated gym may register and use the app.
 - During registration, details such as gym name, location, and membership ID are validated against the gym's database.
 - Inactive memberships result in login failures, with users directed to submit a ticket for verification or membership changes.

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- User Responsibilities and Content:
 - Users must provide accurate, complete information during registration.
 - All content (text, images, videos) submitted by users must adhere to applicable laws and the app's content policies.
 - By posting content, users grant Omnidynam social app a non-exclusive, worldwide, royalty-free license to use, modify, and distribute the submitted material for app-related purposes.
- App Features and Data Protection:
 - The app facilitates community-building through features like leaderboards, private messaging, workout plan creation, and profile management.
 - User data is collected and stored securely, including personal details and fitness metrics, and is used solely for enhancing the user experience.
 - Users have control over their profile visibility and the information displayed (e.g., fitness progress, PR songs).
- Compliance and Updates:
 - The agreement covers compliance with relevant data protection laws (e.g., GDPR, CCPA) and industry-specific standards.
 - Any changes to the terms or the app's functionality will be communicated to users, with continued use implying acceptance of updated terms.

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5. Stakeholder Requirements

We identified stakeholder requirements by interviewing gym members and peers, sharing personal experiences, analyzing the causes of gym-timidation and how Omnidgym can address these issues for primary users while increasing gym participation and sales, and conducting prototype design feedback sessions. This process allowed us to understand each group's unique needs and challenges—for instance, gym owners desired ways to boost engagement and sales, while community members sought a friendly, supportive environment to overcome gym-timidation and increase motivation. Personal trainers and staff members highlighted the difficulty of approaching members through cold calls and expressed a need for a more personable method of breaking the ice by leveraging prior knowledge of the members. Investors emphasized the importance of a solid, growth-oriented revenue model, and our app support team stressed the need for a robust, secure backend that supports continuous updates along with organized documentation and version control. The requirements matrix for this section can be found in section 2.6 of this documentation.

Our final vision for Omnidgym addresses these diverse requirements by integrating tailored features for each stakeholder group. For gym owners, the platform offers comprehensive analytics and engagement tools designed to increase revenue and member loyalty. Primary users benefit from community-centric features such as messaging, leaderboards, workout tracking, and social interactions that directly counteract gym-timidation. Personal trainers have access to member profiles to review fitness goals and metrics, as well as a dedicated communication

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channel to connect with clients, while gym employees enjoy an intuitive interface for managing daily operations and event postings. Investors receive a clear growth strategy with opportunities for promotional expansion, and our app support team is empowered by a streamlined infrastructure that facilitates prompt updates and high-quality customer service. Overall, our iterative, feedback-driven approach has allowed us to create a comprehensive solution that meets—and often exceeds—the expectations of all stakeholders.

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6. Final Vision Alignment

Our final vision ensured that Omnidigm met the needs of users while maintaining regulatory compliance and a user-friendly experience.

6.1 Feature Completeness

Omnidigm Social App includes all essential features such as secure authentication, workout tracking, scheduling, and social networking, ensuring a fully functional and seamless experience for gym members and trainers. Continuous updates and feature expansions are planned based on user feedback.

6.2 Regulatory Compliance

The platform adheres to data privacy regulations such as GDPR and CCPA, implementing encryption protocols and secure authentication methods. Compliance with fitness industry standards ensures that both user data and operational processes meet legal and ethical requirements.

6.3 User-Centric Design

UI/UX decisions were based on user research and verbal surveying, feedback loops, and iterative design improvements. The intuitive layout, accessibility considerations, and smooth navigation contribute to an engaging and efficient user experience.

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7. Software Requirement Specification

The Software Requirements Specification (SRS) document serves as a contract between the development team and the stakeholders, defining the functional and non-functional requirements necessary for the successful implementation of the Omnidgym Social App. It establishes a firm foundation for system design, supports validation and verification, and ensures clarity in communication between developers, customers, and project managers.

7.1 Purpose of SRS

The purpose of this SRS document is to provide a clear understanding of the system requirements for stakeholders. It will act as a reference document throughout the project lifecycle to ensure we are on track and meeting SRS goals. These specifications will also define the scope, performance expectations, and constraints of the Omnidgym Social App. Overall, the SRS will serve as our contract between the development team and stakeholders to resolve any disputes regarding functionality.

7.2 Scope

The Omnidgym Social App is a cross-platform mobile application developed using React Native with Expo to support both iOS and Android platforms. It is designed for verified members of affiliated gyms to create accounts, track workouts, submit personal records, participate in gym-hosted events, and engage socially through community features. The backend is implemented using Django REST Framework and PostgreSQL, integrated via Supabase for authentication and real-time data synchronization.

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Key Objectives:

- Support multiple user roles (gym members, trainers, admins) simultaneously.
- Allow secure authentication and role-based access control like updating databases from admins or updating profiles and form submissions for users.
- Enable workout routine creation using an AI assisted generator, workout and metrics tracking, leaderboard competitions, event postings, profile customizability, and social engagement through messaging and leaderboard posts.
- Real-time updates and interaction by users and admins.
- Ensure high availability, performance, and data security.
- Comply with industry regulations regarding data protection and privacy.

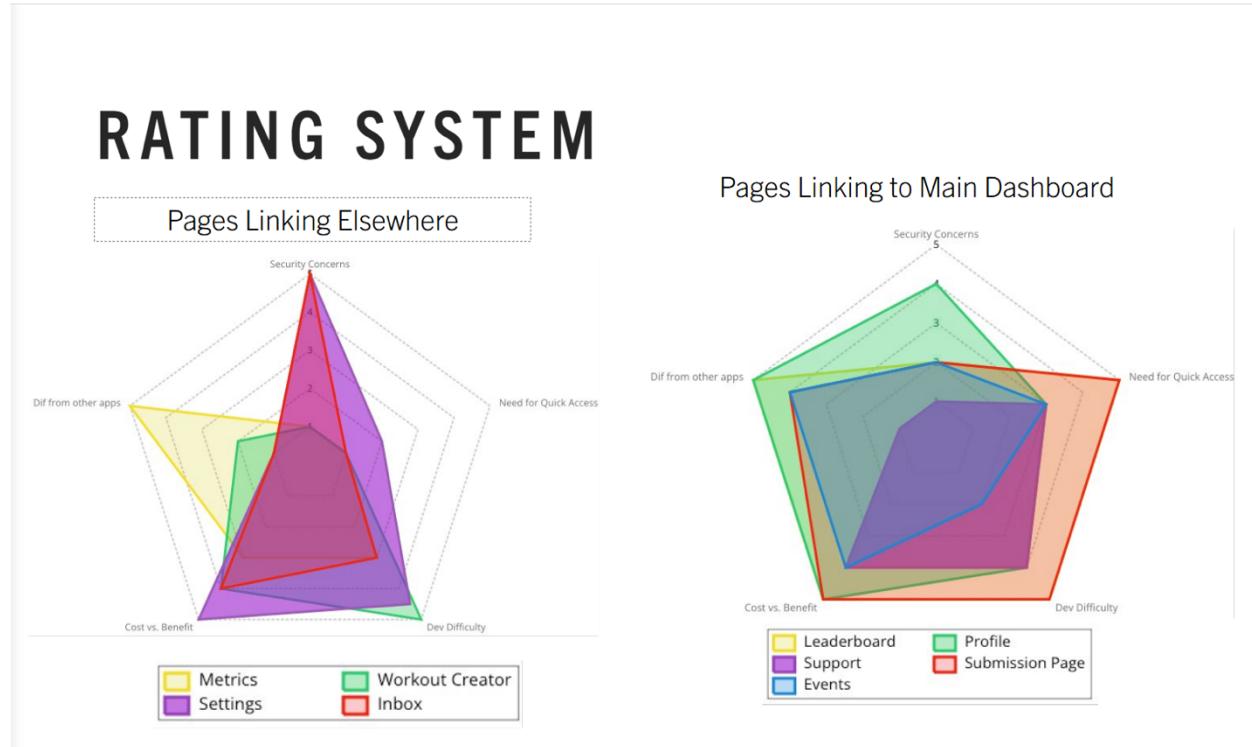
7.3 Functional Requirements

The system's functional requirements define what the software must do:

- **User Registration and Authentication:** Secure sign-up and login functionality with JWT-based authentication through Supabase. Registration must be confirmed using backend database connections to verify gym memberships. When tables are updated by the admin, user memberships must be re-verified in the system. Any users who are no longer active must receive a warning that their profile will be discontinued until membership is either updated or shifted to a different affiliated gym.
- **Workout and Progress Tracking:** Users can log their workouts, track fitness metrics, update and display personal records.

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- Personal Record (PR) Submissions:** Allows gym members to submit PR forms for leaderboards.
- Event Participation:** Users can browse and join events published by the gym admin.
- Social Features (Planned):** Enables users to interact with trainers and other members through leaderboard competitions, profiles, and inbox messaging.
- Customizability:** Allow users to edit profile features and descriptions, set profile to public/private, change type of measurement units used, and check Wilks 2 score.



7.4 Non-Functional Requirements

These requirements define the system's quality attributes:

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- **Performance:** The system must support multiple users logged-in and their records simultaneously without performance degradation.
- **Security:** All user data must be encrypted, and authentication must follow OAuth2 and JWT standards. Hashing should be done using the Supabase built-in *User* table. Database calls to Supabase should use Django and PostgreSQL for best security practices.
- **Scalability:** The backend must support future expansion with minimal refactoring utilizing SOLID concepts and encapsulation.
- **Usability:** The user interface should be intuitive, mobile-friendly, and accessible to users with different fitness goals and varying technical backgrounds. Offline access to cached workout routines is planned for the next iteration.

7.5 External Interface Requirements

- **User Interfaces:** Use React Native with Expo to optimize development for both iOS and Android mobile platforms.
- **Hardware Interfaces:** Must be compatible with Android and iOS devices and web browsers for editing.
- **Software Interfaces:** Integrates with Supabase for real-time data synchronization and Django backend APIs.
- **Communication Interfaces:** Uses RESTful APIs for seamless data exchange and calls.

7.6 Design Constraints

- Our designs need to follow the Agile development methodologies.

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- Must comply with GDPR and CCPA regulations regarding user data privacy.
- The system must be mobile friendly with Android and iOS devices.

7.7 Performance and Security Specifications

- Response Time: All user interactions must be processed within 2 seconds under normal load.
- Availability: The system must maintain 99.9% uptime and use a caching system for saved routines. Cached routines should be accessible even if offline.
- Data Protection: The app must implement end-to-end encryption and secure authentication mechanisms to keep users safe and stakeholders satisfied with performance and safety measures that were taken.

7.8 Verification and Validation

- Unit Testing: Each module must undergo automated testing to ensure correctness. We will use both online simulators and connected iOS and Android devices to test compatibility, design appearance and app performance.
- Integration Testing: API endpoints and data flow must be tested using Postman and CI/CD pipelines.
- User Acceptance Testing (UAT): Stakeholder feedback must be incorporated before final deployment.^{9\8}

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8. Meeting Stakeholder Needs

To establish customer needs, we conducted a survey of approximately two hundred viewers using social media platforms, which helped validate the app name and gather initial feedback. Some viewers responded with additional feedback revealing that they were excited about a digital social platform where they can track their workouts—eliminating the need for clipboards—and engage in friendly competitions with fellow members. Some expressed concerns about feeling intimidated at the gym due to uncertainty about what to do, a challenge our workout routine creator aims to address by offering an easy way to create and track workout routines.

For the other stakeholders, gym owners, personal trainers, gym employees, investors, and our app support team—we relied on personal experience and peer discussions to understand their needs. Gym owners look for tools that boost engagement and drive sales, while personal trainers and staff members highlighted the importance of efficient communication and client management. Investors prioritized a robust, growth-oriented revenue model, and our support team emphasized the need for a secure, easily updatable backend with organized documentation and version control.

Although this initial iteration is based on preliminary feedback and internal insights, we plan to conduct further user testing in iteration two to refine the app's functionality and interface based on direct user input. Overall, our iterative, feedback-driven approach has enabled us to create a

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solution that addresses the diverse requirements of all stakeholders while delivering an engaging experience for gym members.

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9. Team Collaboration and Performance

9.1 Common Goal Overview

Our team is developing a gym social app that is exclusively available to affiliated gyms, similar to Handshake's affiliation with colleges. The app focuses on providing a platform for creating gym routines, convenient fitness tracking, and enhanced gym member engagement to facilitate a comfortable, motivating environment for members within the same gym community.

9.2 Team Collaboration and Effectiveness

Our team effectively collaborated by:

- Assigning clear roles and responsibilities: Each team member had a defined role based on knowledge and skillset, ensuring accountability and an efficient workflow. As the project progressed, some roles shifted to support the development areas that were falling behind.
- Maintaining open communication: We held weekly meetings, conducted regular reviews, and utilized Microsoft Teams to stay updated throughout the week. We also met outside of scheduled meetings as needed to assist each other.
- Using collaborative tools: We leveraged Microsoft Teams, GitHub, Excel Gantt Charts, MS Planner, Editor, and Figma to streamline our workflow and project management.

9.3 Team Members and Roles

- **Violet** – Executive Lead, Operations Manager, Full Stack Engineer, Graphic Designer
- **Jawad** – Project Manager, Tech Lead, Android Lead

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- **Maruf** – iOS and Frontend Engineer
- **Kliman** – Scrum Master, Backend Support, Database Support
- **Robert** – Frontend Engineer, Middleware Support
- **Viktor** – Frontend Support, Backend Support

9.4 Tech Stack

- **Frontend:** React Native + Expo
- **Backend:** Django
- **Database & Cloud Services:** Supabase/PostgreSQL
- **Tools:** Microsoft Teams, GitHub, Excel Gantt Charts, MS Planner, Figma

9.5 Ability to Function Effectively

Our team demonstrated a high level of collaboration and adaptability throughout the development and planning phases. Team members consistently supported each other by engaging in proactive questioning during scheduled meetings and frequent one-on-one sessions via Microsoft Teams. Despite initial skillset challenges, particularly our collective inexperience with creating full-stack mobile applications and cross-platform compatibility, the team remained resilient. When framework and language choices led to difficulties, we promptly reassessed and transitioned to more user-friendly options without resistance.

The team actively evaluated the effectiveness of various tools and organizational strategies. Key resources such as Microsoft Excel, Word, Office 365 shared folders, and MS Planner were instrumental in enhancing our communication and project management capabilities. Our

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structured approach, complemented by robust teamwork and optimal tool selection, significantly contributed to the successful and efficient development of our Fitness Leaderboard App.

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10. Project Criteria Satisfaction

The Omnidigm app successfully satisfies all planned features for Iteration 1, and 2. Users can register, log in, and access the home page, which includes navigable sections such as profile, support, events, and settings. Regarding Integrating Custom AI Workout Routines, development is underway for workout tracking, AI-assisted routine generation, real-time messaging, and social networking — all of which aim to increase engagement, foster motivation, and build a stronger sense of community among gym members.

The app is being developed using the Agile-Scrum methodology, which allows for flexibility, iterative delivery, and rapid response to feedback. The tech stack was refined between iterations to improve performance and scalability. While the early prototype used Ionic React with Python, SQLite3, and Firebase, the current architecture has been upgraded to use React Native with Expo for cross-platform mobile development and a Django + PostgreSQL backend, hosted via Supabase. This allows us to work from a unified codebase that supports both iOS and Android, streamlining development and deployment.

We've applied SOLID principles and best practices to maintain a clean and modular architecture. Our codebase features meaningful identifiers, descriptive filenames, and organized folder structures. Adherence to PEP8 styling, modular components, and proper indentation ensures clarity and maintainability. The backend API is tested using Postman, and unit testing was introduced for core features like authentication, workout tracking, and leaderboard updates.

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Version control is managed through GitHub, and all commits are reviewed before merging. The team follows a consistent Git workflow using feature branches and pull requests. Code reviews are conducted regularly, improving quality and encouraging team knowledge-sharing. Issues and bugs are tracked using GitHub Issues and resolved based on priority. A major hurdle encountered during Iteration 1 involved Android Gradle build errors, which led to our decision to transition to React Native and Expo to simplify deployment across platforms (GitHub).

To support future developers and users, a comprehensive README file was created, detailing the project's purpose, core features, contributors, and an installation guide outlining system requirements and setup steps.

From a project management perspective, sprint planning was conducted using Microsoft Planner, and meeting minutes were documented in Microsoft Teams. Each sprint began with clearly defined goals and task assignments based on team expertise. Progress was tracked regularly, and retrospectives were held at the end of each sprint to assess outcomes and identify areas for improvement. These reflections were documented and used to adapt processes in future sprints.

Collaboration remained a key strength throughout development. We utilized Microsoft Teams, GitHub, SharePoint, and Figma to communicate effectively, share assets, and keep development aligned. Daily stand-ups helped surface issues early, and asynchronous check-ins ensured flexibility. Our team even created tutorial videos to support one another with tool usage, such as GitHub version control and merging best practices (GitHub).

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In summary, the Omnidigm app is meeting its original goals while evolving based on user needs and technical feasibility. Iteration 3 reflects a shift toward scalability, maintainability, and user-centered design, setting the stage for even more impactful features in upcoming development cycles. One of the main plans in iteration 3 was the AI workout creating routine, which we will actively build. We are going to be utilizing a Deep seek AI model for API calls, displaying exercises based on users and their metrics. For these costs and other costs we have drafted a Power BI Dashboard that displays the overall operating costs a month. The ability to play PR songs had been and worked. We will have a music API and it will request for songs and once you hit PRs, you can always play them. The APIs and the other cost had been included in the Power BI Dashboard.

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11. Stability Assessment

Due to the complexity of the Omnidigm application, we will focus our metrics customization calculations based on these main frontend screens: the Splash Screen, About-Omnidigm intro, Homepage, Login, Gym Verification/Registration, Register Account, Leaderboards, Events, Settings, Profile, Inbox, and Routines pages.

11.1 Customization Index

The customization index tells us how dynamic and user-centric our project is.

Customization Index		
Metric	Count	Description/Example(s)
Static Screen Displays	3	Splash screen, About-Omnidigm-Intro screen, Homepage
Dynamic Screen Displays	9	Login, Gym Verification (registration), Register Account, Leaderboards, Events, Settings, Profile, Inbox, Routines
Persistent Data Objects	22	AffilGyms, OmnidigmSupport, LifetimeFitnessDB, PlanetFitnessDB, LTFUsers, LTFUserSettings, LTFUserMetrics, LTFMessages, LTEvents, LTFExercises, LTFWorkoutPlans, LTFLeaderboard, LTFArchivedLeaderboards, PFUsers, PFUserSettings, PFUserMetrics, PFMessages, PFEvents, PFEExercises, PFWorkoutPlans, PFLeaderboard, PFArchivedLeaderboards

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External Systems Interfaced	4	Supabase, Django API Backend, SoundCloud, Expo for React Native
Static Content Objects	114	i.e. The varying Logo images, hardcoded string labels for input values, placeholders in forms, button labels, Logout button
Dynamic Content Objects	118	i.e. User metrics, avatar image, scroll views, filter selections, expand/collapse icons, profile and unit metrics toggles, alert popups, dropdown lists that change based on previous values
Executable Functions	110	i.e. RegisterGym, setSelectedGymName, useEffect, router.back, setEmail, handleUpload, handleSubmit, setAgeRange, onPress, formatWeight, fetchProfile

$$\text{Customization index } C = \frac{(\text{Dynamic Screen})}{(\text{Dynamic Screen} + \text{Static Screen})} = \frac{9}{9 + 3} = 0.75$$

The customization index of Omnidgym is about 75%.

11.2 Structural Complexity

Along with the main frontend files, we will also include App.tsx and evaluate the structural complexity using the backend files too (*refer to .py files below*). The following is the formula used to calculate the structural complexity along with an example of a file calculation:

$$\begin{aligned} S(i) &= f_{out}^2(i) \\ &= 4^2 = 16 \end{aligned}$$

Structural Complexity

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File Name	Fan-Out $f_{out}(i)$	Structural Complexity $S(i)$
index.tsx	2	4
Settings.tsx	7	49
RegisterGym.tsx	4	16
Home.tsx	2	4
Inbox.tsx	1	1
Routine.tsx	2	4
Profile.tsx	6	36
Login.tsx	7	49
SplashScreen.tsx	0	0
Welcome.tsx	2	4
Events.tsx	2	4
Leaderboard.tsx	4	16
Support.tsx	2	4
api/admin.py	1	1
api/apps.py	1	1
api/models.py	2	4
api/serializers.py	2	4
api/urls.py	2	4
api/utils.py	2	4

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api/views.py	11	121
server/asgi.py	2	4
manage.py	2	4
server/settings.py	5	25
server/urls.py	4	16
server/wsgi.py	5	25

If we calculated the structural complexity based on the summation of frontend files (.tsx files above), backend files (.py files above), then both together, the calculations would be:

$$\text{backend} = 2(1) + 4(6) + 16 + 2(25) + 121 = 213$$

$$\text{frontend} = 1 + 4 + \dots + 49 + 49 = 191$$

$$\text{Total Structural Complexity} = 213 + 191 = 404$$

11.3 Data Complexity

To calculate data complexity, we find $v(i)$ which is the number of input and output variables passed into the module (i.e. props, state, user input/output, API-bound values, or any other dynamic data passed in/out). The data complexity formula used is as follows:

$$D(i) = \frac{v(i)}{f_{out}(i) + 1}$$

Data Complexity			
File Name	Input/Output Variables $v(i)$	File Name	Input/Output Variables $v(i)$

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index.tsx	3	api/admin.py	0
Settings.tsx	33	api/apps.py	0
RegisterGym.tsx	8	api/models.py	61
Home.tsx	4	api/serializers.py	30
Inbox.tsx	3	api/urls.py	0
Routine.tsx	13	api/utils.py	0
Profile.tsx	5	api/views.py	14
Login.tsx	9	server/asgi.py	0
SplashScreen.tsx	0	manage.py	1
Welcome.tsx	0	server/settings.py	6
Events.tsx	3	server/urls.py	0
Leaderboard.tsx	7	server/wsgi.py	0
Support.tsx	3		

After calculating the individual files input/output variables, we add them up and get this for the data complexity:

$$D(i) = \frac{v(i)}{f_{out}(i) + 1} = \frac{203}{404 + 1} = 0.50 = 50\%$$

This indicates there is a balanced split between the input and output values of our application, which is common for CRUD-based applications.

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11.4 System Complexity

Using the structural complexity and data complexity, we can apply the Henry and Kafura metric to them to find:

$$\text{System Complexity}(SC) = \text{Structural Complexity}(SC') + (1 + \text{Data Complexity} (DC))$$

$$SC = 404 \times (1 + 0.50) = 404 \times 1.5 = 606$$

This value represents the cumulative complexity of all modules in the system, also referred to as the system complexity. A system complexity score of 606 indicates a moderately high level of architectural and data interaction, reflecting the breadth of features and number of dynamic components across the app.

11.5 Morphology Metrics

The Omnidigm app Morphology Metrics was evaluated by using the UML diagram and the activity flow charts, based on the structure.

Metric	Value	Notes
Number of Modules	6	Profile, Workouts, Leaderboard, Social Feed, Events, Settings
Average Module Interconnectivity	2-3 connections per module	The modules are connected for user navigation, but not overly tangled.
Cohesion	High	Each of the modules are focused on certain aspects.
Coupling	Low	Each module operates independently except for authentications states (Login/Logout)

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11.6 Interface Metrics

The team determined that the best way to test the interface quality for the Omnidgym app was by examining a test of a few users and the flow of each screen between them, how they used our navigation, and users' accessibility of features. Based on the results we concluded:

- Number of Main Interfaces: 6

Home Dashboard, Profile, Workouts, Leaderboard, Social Feed, Events.

- Average number of buttons: 3-5

Depending on the screens there are an average of 3-5 actions button on each screen.

- Navigation Simplicity: High

The navigation throughout the app is simple with clear naming, and a tab navigation bar for fast switching between modules.

- Consistency Across Screens: High

The design and coloring of each screen, including the navigation flow, applied to all interfaces.

- Accessibility Features: Moderate

The Font sizes, button sizes and layout are mobile friendly with Android and iOS, but full accessibility enhancements like more in-depth sign-up pages for events and leaderboard improvements are planned for future versions.

The analysis taken for Omnidgym helps us conclude that the app provides a user-friendly, consistent, and accessible experience, encouraging an efficient use across all major modules.

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11.7 Aesthetics Metrics

To calculate the Aesthetics Metrics, we chose to analyze the user profile (Profile.tsx file) because it's a major design attraction compared to the rest of the app; it is the main screen where users would focus on the aesthetic attractiveness.

Aesthetic Metrics	Profile.tsx Evaluation
Word count	~500 visible user-facing words (includes all Text content: labels, headers, captions, units, etc.)
Body text percentage	Moderate (~65%). Most text is meaningful body content like metric labels, profile values, and descriptions rather than headers.
Emphasized body text percentage	Low (~10%). Mostly used for fontWeight: 'bold' in headings (e.g., name, metric values, labels like "PR Song")
Text positioning count	Medium (5+). Includes flush-left default, centered name/caption, positioned PR metrics and floating logout/chat buttons.
Text cluster count	High. Grouped clusters include Profile Info, PR Metrics, Fitness Rings, General Info, and PR Song Section.
Link count	~2. LOGOUT and Inbox buttons are navigational; SoundCloud URL is embedded (counts as a single interactive content link).
Page size	Large. Includes images (avatar, icons), ring components, and SoundCloud embedded iframe/audio.
Graphic percentage	High (~60–70%). Large emphasis on icons, profile photo, ring charts, and SoundCloud player.
Graphics count	~10 distinct images/components: avatar, 4 PR icons, logo, 3 ring graphs, and 1 SoundCloud module.

Our profile screen shows a strong consistency with the rest of the app and itself. It maintains the same color scheme that utilizes color theory concepts, section headers for improved readability, metric models to represent data for more engaging visuals, and low wordcounts to cater to quick glances at profiles.

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11.8 Content Metrics

We take a look at the Profile.tsx again to analyze the content metrics and grasp an idea of the the content metrics complexity of the page:

Suggested Metric	Profile.tsx Evaluation
Page wait	Medium (about 1–3s on average Wi-Fi): Moderate due to use of Supabase fetches, images, and embedded audio
Page complexity	High : Combines multiple media types — images (profile, icons), chart components, SoundCloud embed
Graphic complexity	High (~9 graphics): Profile image, 4 PR icons, 3 fitness rings (SVG or image-based), OmniGym logo
Audio complexity	Low–Medium (1): One SoundCloud track embedded via URL
Video complexity	None (0): No video media included
Animation complexity	Medium (~3): Animated fitness rings (animated values), modal transitions, ScrollView horizontal scrolling
Scanned image complexity	None (0): All images appear to be vector/PNG-based, not scanned or raster document captures

The Profile.tsx screen has high graphic and page complexity due to icons, profile images, animated fitness rings, and an embedded SoundCloud player. Audio complexity is low, with no video or scanned images. Page wait is moderate from media and Supabase fetches but manageable.

11.9 Source Code Metrics (Halstead)

Below is a breakdown of the Halstead calculations made on the Profile.tsx file:

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Estimated Operator and Operand Counts (Profile.tsx)

Metric	Count	Examples
n_1	25	import, =, (), {}, return, if, await, &&, ?, :, etc.
n_2	42	profile, settings, metrics, setState, View, Text, etc.
N_1	145	Total operator appearances throughout all JSX + logic
N_2	220	Variable and identifier appearances

$$n = n_1 + n_2 = 25 + 42 = 67$$

$$N = N_1 + N_2 = 145 + 220 = 365$$

Volume:

$$V = 365 \times \log_2(67) \approx 365 \times 6.07 \approx 2,2166$$

Difficulty:

$$D = \frac{25}{2} \times \frac{220}{42} \approx 12.5 \times 5.24 \approx 65.5$$

Effort:

$$E = 65.5 \times 2,216 \approx 145,158$$

Metric	Value
Distinct Operators (n_1)	25
Distinct Operands (n_2)	42
Total Operators (N_1)	145
Total Operands (N_2)	220
Program Length (N)	365

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Program Vocabulary (n)	67
Volume (V)	~2,216
Difficulty (D)	~65.5
Effort (E)	~145,158

The Profile.tsx file demonstrates moderate-to-high cognitive complexity. It contains 67 unique operators and operands across 365 total token instances. The calculated Halstead Volume (~2,216) and Effort (~145,158) indicate a dense, interactive file requiring substantial mental processing, mainly due to conditional rendering, Supabase queries, and UI logic. Refactoring into smaller components may help reduce effort and improve maintainability.

11.10 Goal-Driven Metrics

- **Business Goals:**

Deliver high-quality, maintainable profile screen features that enhance user experience and minimize post-release defects and delays.

- **What we want to know and learn:**

- How efficient and accurate is the team in implementing and releasing profile-related changes?
- How quickly and effectively are user or QA feedback requests addressed?

- **Subgoals:**

- Reduce time and effort for change requests.
- Minimize defects introduced during or after changes.

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- Improve team responsiveness from evaluation to assignment.
 - Entities and attributes related to the subgoals:
- | Entity | Attributes |
|------------------|--|
| Change Request | Date created, evaluated, assigned, closed |
| Developer Effort | Person-hours, errors introduced |
| Defects | Source (pre-release or post-release), severity |
- Measurement goals:
- Analyze time-to-resolution and change effort to improve responsiveness and reduce cost.
 - Evaluate post-change defects to assess software quality.
 - Track developer workload and quality over time.
- Data elements to collect to construct the indicators:

Question	Indicator
How long do evaluations take?	t_{queue}
How much effort is spent evaluating requests?	W_{eval}
Are change requests assigned promptly?	t_{eval}
How much effort/time does a change require?	W_{change}, t_{change}
Are changes introducing too many errors or defects?	E_{change}, D_{change}

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- Data elements to be collected:
 - Timestamps: request submitted, evaluation complete, assignment, change completed.
 - Person-hours logged per task.
 - Errors/defects logged before and after release.
- Measures to be used and to make these definitions operational:

Measure	Definition
t_{queue}	Time from request submission to evaluation start (in hours/days)
W_{eval}	Developer hours spent assessing request feasibility
t_{eval}	Time from evaluation completion to task assignment
W_{change}	Developer hours logged to implement the change
t_{change}	Duration from assignment to implementation complete
E_{change}	Errors found during implementation or testing
D_{change}	Defects reported post-deployment by users or QA

- Actions to take to implement the measures:
 - Integrate time tracking and change logs into GitHub issues or project tools (e.g., Jira, Trello).
 - Tag commits and PRs with change request IDs.
 - Use Supabase error tracking and logging.
 - Conduct post-release reviews to log and categorize defects.

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- Plan to implement the measures:
 - **Week 1:** Set up tracking templates and define change request workflow.
 - **Week 2–3:** Begin collecting real project metrics (e.g., changes to Profile.tsx).
 - **Week 4:** Analyze metrics for bottlenecks, update effort estimates.
 - **Monthly:** Review metrics to adjust planning, sprint capacity, and QA cycles.

Small Company/Group Metrics:

- Time (hours or days) elapsed from the time a request is made until evaluation is complete:
- Effort (person-hours) to perform the evaluation, W_{eval} .
- Time (hours or days) elapsed from completion of evaluation to assignment of change order to personnel, t_{eval} .
- Effort (person-hours) required to make the change, W_{change} .
- Time required (hours or days) to make the change, t_{change} .
- Errors uncovered during work to make change, E_{change} .
- Defects uncovered after change is released to the customer base, D_{change} .

Metric	Value / Unit	Notes / Source
Time from request to evaluation complete (t_{queue})	e.g., 1.5 days	Tracked via issue creation → evaluation comment timestamp
Effort to perform evaluation (W_{eval})	e.g., 2.0 person-hours	Logged by dev or team lead
Time from evaluation to assignment (T_{eval})	e.g., 4 hours	Evaluation complete → task assigned in Jira/GitHub

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Effort to implement change (W_{change})	<i>e.g.</i> , 6 person-hours	Total hours tracked by assigned developer
Time to make change (t_{change})	<i>e.g.</i> , 2 days	From assignment to PR merge
Errors during change (E_{change})	<i>e.g.</i> , 3	Unit test failures, bugs found during dev
Defects after release (D_{change})	<i>e.g.</i> , 1	Reported by users after deployment

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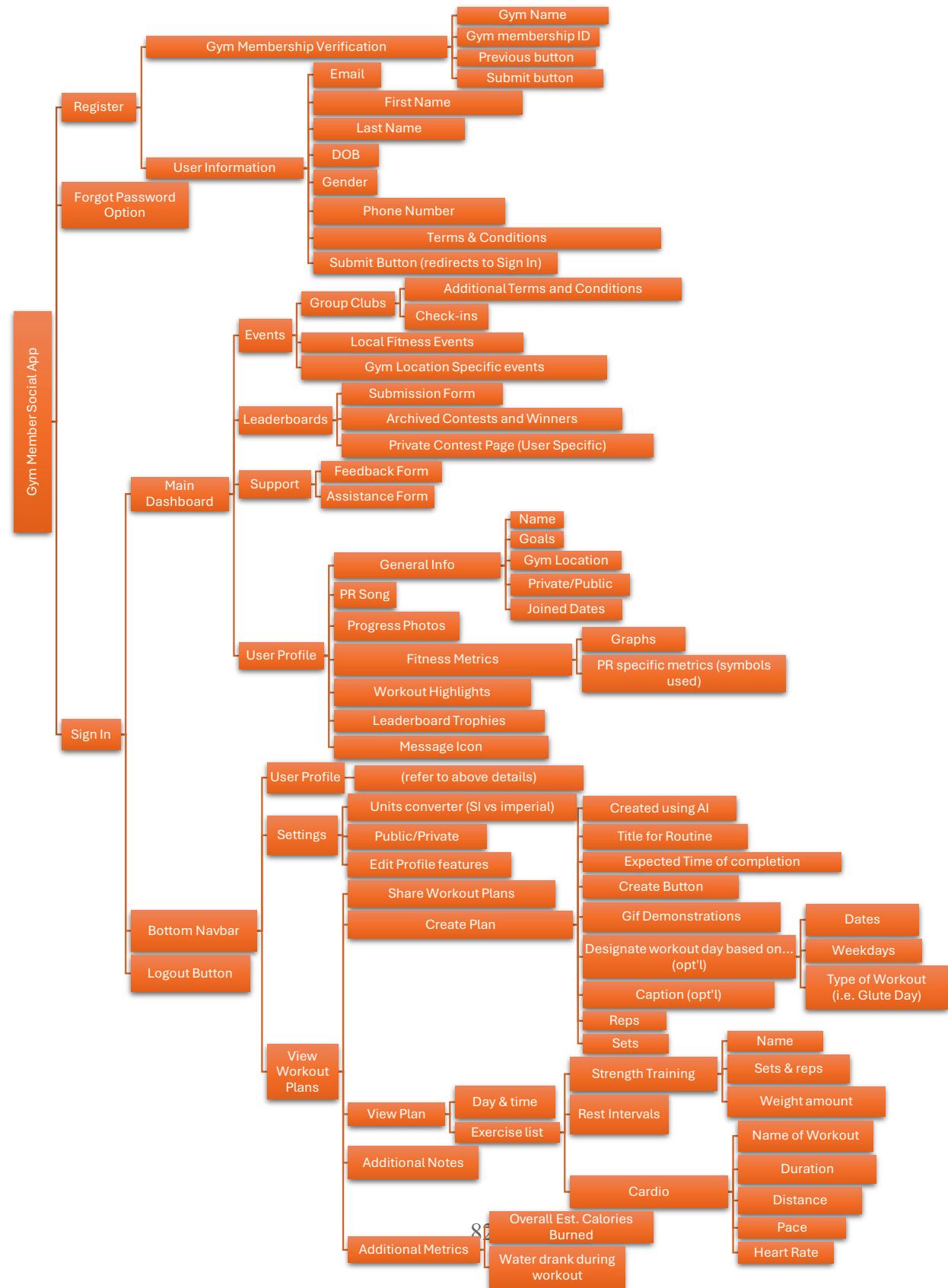
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13. Appendix A

This appendix shows the feature creation outline for Omnidigm during our initial team meeting that we originally created on Edotor and further expanded on. Due to its close attention to feature details being included, the best viewability is virtual and zooming into the page. Graph can be viewed on the next page.

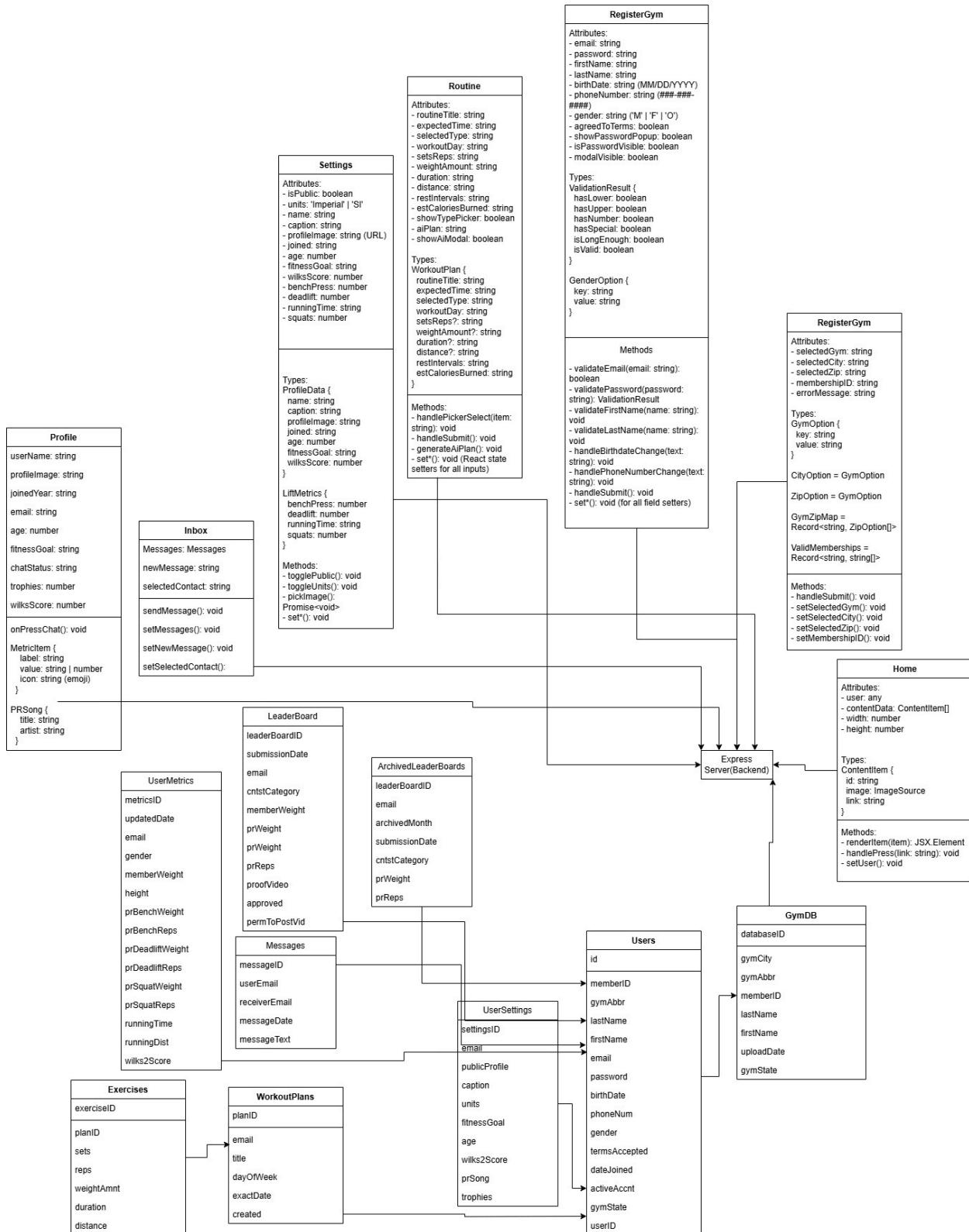
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14. Appendix B

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15. Appendix C

The following pages are imported records of sprint meetings the team tracked with the projects progress information and overall details of meetings and tasks that were discussed and/or completed so far.

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Week 1

Client: [Redacted] ---

Software Engineers: The Dream Team (Group 13) **Scrum Master:** Jawad Rashid

Sprint:	Date:	01/16/2025	Time:	2 hrs 30 min
Attendees:	Kliman Darawish	Abdulla Maruf		
	Robert Simovski	Jawad Rashid		
	Viktor Gjorgjevski	Violet Yousif		
Achievements:	Completed Edotor Graph. Decided on app concept.			

Product Backlog: (In-progress tasks and by whom, forms to be created)

Group was tasked with forming and deciding on an app concept.

Create a PowerPoint with our process and decisions.

Sprint Goals: (New requirements/events, existing goals)

Decide on app concept using Edotor graph site and rating system.

Decide what is important to include in rating system.

Team Availability: (Tasks and research given to members on individual time)

Group – Research app name concepts. Check trademarking and app store availability.

Jawad – Add Project Management schedule. Research project tech stack.

Violet – Create Logo concept.

Kliman – Research AI workout scheduler.

Maruf – Research data storage options.

Assign Backlog Items: (Assigned tasks pertaining to completion of Backlog goal)

Group – Rate main dashboard pages using rating system.

Group – Research ideas pertaining to main dashboard linked pages and features like linking AI capabilities, analytics, profiles, etc.

Violet – Will create PowerPoint presentation and Scrum Meeting form.

Retrospective: (What went right? What went wrong?)

App concept was decided on. Team did great thinking outside the box for feature concepts.

A workplan with deadlines and dividing project into parts could improve flow. Relocating during in-person labs may reduce distractions and improve productivity and focus.

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Week 4

Client: Forestview

Software Engineers: The Dream Team (Group 13)	Scrum Master: Kliman Darawish
--	--------------------------------------

Sprint:	Date:	02/06/2025	Time:	5 hrs
Last Sprint:	Date:	01/30/2025	Time:	4 hrs 30 min
Attendees:	Kliman Darawish Robert Simovski Viktor Gjorgjevski		Abdulla Maruf Jawad Rashid Violet Yousif	
Achievements:	Created a mockup of the Starburst points.			

Product Backlog: (In-progress tasks and by whom, forms to be created)

Group – Work on starburst details

Discuss framework and programming findings and research.

Sprint Goals: (New requirements/events, existing goals)

Finish Starburst discussion.

Finish presentation to address starburst concerns.

Begin discussion on getting database and programs started.

Team Availability: (Tasks and research given to members on individual time)

Group – Add personal notes to designated slides.

Viktor and Robert – Create Presentation

Violet – Continue with mockup designs. Create a mockup of database table info.

Assign Backlog Items: (Assigned tasks pertaining to completion of Backlog goal)

Group – Start reviewing and researching iteration project requirements.

Retrospective: (What went right? What went wrong?)

Team engaged well with each other and members were comfortable with whatever slides they were assigned.

Still need to delegate tasks per member more evenly.

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Week 5

Client: Forestview

Software Engineers: The Dream Team (Group 13)	Scrum Master: Kliman Darawish
--	--------------------------------------

Sprint:	Date:	02/13/2025	Time:	6 hrs
Last Sprint:	Date:	02/06/2025	Time:	5 hrs
Attendees:	Kliman Darawish		Abdulla Maruf	
	Robert Simovski		Jawad Rashid	
	Viktor Gjorgjevski		Violet Yousif	
Achievements:	Decided on team roles. Begin programming.			

Product Backlog: (In-progress tasks and by whom, forms to be created)

Group – split group up into Android and Apple teams

Discuss frameworks for frontend and backend

Sprint Goals: (New requirements/events, existing goals)

Work on project one presentation

Commit to Frameworks and languages.

Team Availability: (Tasks and research given to members on individual time)

Group – Learn how to use frameworks

Robert and Violet – Create frontend programs
--

Jawad – Create PowerPoint and update slides

Adbulla – Create firebase tables

Viktor – Research Django and assist Kliman
--

Kliman – Work on backend development/research

Assign Backlog Items: (Assigned tasks pertaining to completion of Backlog goal)

Violet – team leader, Robert and Abdulla assisting (primarily frontend and iOS support)

Jawad – team leader, Viktor and Kliman assisting (primarily backend and Android support)
--

Retrospective: (What went right? What went wrong?)

Team did well delegating roles, cleared up assignment details.
--

Choosing what framework to use was a bit confusing at first.
--

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Week 6

Client: Forestview

Software Engineers:	The Dream Team (Group 13)	Scrum Master:	Kliman Darawish
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Sprint:	Date:	02/20/2025	Time:	8 hrs
Last Sprint:	Date:	02/13/2025	Time:	6 hrs
Attendees:		Kliman Darawish Abdulla Maruf Robert Simovski Jawad Rashid Viktor Gjorgjevski Violet Yousif		
Achievements:		Completed iteration 1		

Product Backlog: (In-progress tasks and by whom, forms to be created)	
Group – Finish Iteration 1 program, documentation, and Presentation.	
Jawad, Viktor, Kliman – Research Django	

Sprint Goals: (New requirements/events, existing goals)	
Group – Discuss what needs to be completed still.	
Commit to new Frameworks and languages.	

Team Availability: (Tasks and research given to members on individual time)	
Violet and Jawad – Delegate team for next iteration	
Robert – Improve/work on connecting HTML code to frontend app	
Adbulla – Update database headers	
Kliman and Viktor – Begin converting backend code for React.	

Assign Backlog Items: (Assigned tasks pertaining to completion of Backlog goal)	
Group – Finish documentation. Requirement tasks not assigned because it will be based on comfortability of answering questions per person.	

Retrospective: (What went right? What went wrong?)	
Presentation went well. Team leaders did well delegating. Audience was engaged and enthusiastic about the app concept. Received valuable feedback from the audience and Forestview CEO.	
Establishing meeting times seems to be difficult with varying schedules. CEO recommended being more “hype” when presenting but liked that it came out when engaging with audience.	

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WEEK 7

Client: Forestview

Product Owners: The Dream Team (Group 13) **Scrum Master:** Kliman Darawish

Sprint:	Date:	02/27/2025	Time:	6 hrs
Last Sprint:	Date:	02/20/2025	Time:	8 hrs
Attendees:	Kliman Darawish Abdulla Maruf Robert Simovski Jawad Rashid Viktor Gjorgjevski Violet Yousif			
Achievements:	Decided to switch frontend to React Native + Expo, & Django for backend			

Product Backlog: (In-progress tasks and by whom, forms to be created)
Group – Assign tasks for iteration 2
Jawad, Viktor, Kliman – Implement Django Rest Framework

Sprint Goals: (New requirements/events, existing goals)
Group – Work on individual tasks
Commit to new Fullstack framework

Team Availability: (Tasks and research given to members on individual time)
Violet and Jawad – Delegate team for next iteration
Robert – Convert frontend to React Native
Abdulla – Work on Firebase implementation
Kliman and Viktor – Begin converting backend code from Flask to Django

Assign Backlog Items: (Assigned tasks pertaining to completion of Backlog goal)
Team – Implement Python code to connect to DB and frontend

Retrospective: (What went right? What went wrong?)
Due to restrictions with the previous framework, we had to switch and restart the project.
Incorporating Firebase seems to be more complicated than we thought.

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WEEK 8

Client:	Forestview
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Product Owners:	The Dream Team (Group 13)	Scrum Master:	Kliman Darawish
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Sprint:	Date:	03/06/2025	Time:	7 hrs
Last Sprint:	Date:	02/27/2025	Time:	6 hrs
Attendees:		Kliman Darawish Abdulla Maruf		
		Robert Simovski Jawad Rashid		
		Viktor Gjorgjevski Violet Yousif		
Achievements:	Robert and Violet successfully got React Native + Expo to run.			

Product Backlog: (In-progress tasks and by whom, forms to be created)
Jawad & Violet – create SQL database schema
Robert & Violet – Create frontend pages for Android and iOS compatibility

Sprint Goals: (New requirements/events, existing goals)
Research new database that might be more React Native friendly
Update diagrams in iteration 2

Team Availability: (Tasks and research given to members on individual time)
Team – practice git commits to get more comfortable; research tutorials
Robert & Violet – Improve error handling in frontend pages and registration
Kliman & Viktor – test backend framework for errors
Maruf & Jawad – work on database integration

Assign Backlog Items: (Assigned tasks pertaining to completion of Backlog goal)
Incorporate dual authentication for email
Maruf – Look into password hashing with Firebase

Retrospective: (What went right? What went wrong?)
The switch to React Native wasn't too difficult. Backend switch isn't having as smooth of a transition though.

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WEEK 9

Client:	Forestview
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Product Owners:	The Dream Team (Group 13)	Scrum Master:	Kliman Darawish
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Sprint:	Date:	03/13/2025	Time:	7 hrs 30 min
Last Sprint:	Date:	03/06/2025	Time:	7 hrs
Attendees:	Kliman Darawish		Abdulla Maruf	
	Robert Simovski		Jawad Rashid	
	Viktor Gjorgjevski		Violet Yousif	
Achievements:	Frontend Registration is complete.			

Product Backlog: (In-progress tasks and by whom, forms to be created)
Maruf - Investigate authentication
Violet – Update frontend objects to reflect naming in database schema.

Sprint Goals: (New requirements/events, existing goals)
Revise backend code to add better comments for clarity
Discuss iteration 2 immediate goals and GitHub issues (deleted files reappearing)

Team Availability: (Tasks and research given to members on individual time)
Violet – Build and revise the user installation instructions
Robert – Add new user pages to frontend
Team – Continue working on assigned tasks in MS Planner

Assign Backlog Items: (Assigned tasks pertaining to completion of Backlog goal)
Viktor – Assist Robert & Kliman on frontend/backend
Jawad & Violet – Find alternative to Firebase.

Retrospective: (What went right? What went wrong?)
Frontend registration is almost complete just needs a few tweaks.
Issues with backend and database integration. Still need to connect it to frontend.

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WEEK 10

Client:	Forestview
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Product Owners:	The Dream Team (Group 13)	Scrum Master:	Kliman Darawish
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Sprint:	Date:	03/20/2025	Time:	13 hr 45 min
Last Sprint:	Date:	03/13/2025	Time:	7 hrs 30 min
Attendees:	Kliman Darawish Abdulla Maruf Robert Simovski Jawad Rashid Viktor Gjorgjevski Violet Yousif			
Achievements:	Switching to Supabase for the project database.			

Product Backlog: (In-progress tasks and by whom, forms to be created)
Group – Work on documentation
Violet – Introduce database platform switch (Supabase)

Sprint Goals: (New requirements/events, existing goals)
Preview Supabase with team. Connected everyone's emails.
Switching team roles to compensate for workload and time frame
Violet – Worked with team to get their repos updated and running from GitHub

Team Availability: (Tasks and research given to members on individual time)
Robert & Maruf – Add new frontend pages and debug
Violet & Jawad – Update Supabase tables and research connecting to project
Kliman – Remove deprecated program files and push backend repo (flask and SQLite3)
Viktor – Update UML diagram and other outdated diagrams

Assign Backlog Items: (Assigned tasks pertaining to completion of Backlog goal)
Team – Begin updating documentation from previous iteration requirements
Violet and Jawad – Work on connecting Supabase to updated project. Get User Auth to work in DB.

Retrospective: (What went right? What went wrong?)
Team was excited about the database change.
Behind on progress for backend due to database, need to integrate it fully with frontend
Team was open to team role changes.

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WEEK 11

Client: -- Forestview

Product Owners: The Dream Team (Group 13)

Scrum Master: Kliman Darawish

Sprint:	Date:	03/27/2000	Time:	12 hr 30 min
Last Sprint:	Date:	03/20/2025	Time:	13 hr 45 min
Attendees:	Kliman Darawish		Abdulla Maruf	
	Robert Simovski		Jawad Rashid	
	Viktor Gjorgjevski		Violet Yousif	
Achievements:	User authentication works. Database integrated with frontend (but broke in merge).			

Product Backlog: (In-progress tasks and by whom, forms to be created)

Jawad & Violet – Completed and updated database tables on Supabase

Sprint Goals: (New requirements/events, existing goals)

Team – Work on comfortability with GitHub and merging repos. Watch short videos Violet made and sent in Teams chat. Also, get repos to run on VSCode.

Discuss urgent matters pertaining to presentation date.

Team Availability: (Tasks and research given to members on individual time)

Violet – Fix backend problem caused by outdated repo's being merged with old dependencies and file structures that broke program links. Assist with full stack issues.

Kliman & Jawad – Work on backend functions in Django for Supabase

Viktor – Create an Admin sign-in profile

Robert & Maruf – Frontend, Integration of full stack

Jawad – Create Presentation. Assist with full stack issues. Update iteration documentation.

Assign Backlog Items: (Assigned tasks pertaining to completion of Backlog goal)

Complete Frontend Pages.

Create Admin pages to allow for direct CSV code parsing into Supabase tables.

Retrospective: (What went right? What went wrong?)

Merge conflicts are breaking main branch code. Pushes with security vulnerabilities are being overlooked due to large dependency files making it difficult to manually fix merge conflicts.

Difficulties connecting the backend to the database and integrating it with the frontend.

Time constraints and overestimating how much we could get complete for this iteration has set us back on progress goals.

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WEEK 12

Client: Forestview

Product Owners: The Dream Team (Group 13)	Scrum Master: Kliman Darawish
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Sprint:	Date:	04/03/2025	Time:	11 hr 15 min
Last Sprint:	Date:	03/27/2025	Time:	12 hr 30 min
Attendees:	Kliman Darawish		Abdulla Maruf	
	Robert Simovski		Jawad Rashid	
	Viktor Gjorgjevski		Violet Yousif	
Achievements:	Iteration 2 Presentation complete. Frontend User pages mostly complete.			

Product Backlog: (In-progress tasks and by whom, forms to be created)

Viktor – Continue to create Admin Pages for CSV upload and user form submissions

Create Quality Manual and Procedure document per Rubric.

Sprint Goals: (New requirements/events, existing goals)

Assigned tasks per member on Excel doc for Iteration 2 documentation requirements.

Discussed communication strategies and preferences. Reviews are mixed.

Team Availability: (Tasks and research given to members on individual time)

Violet & Jawad – Edit documentation from previous iteration along with new tasks

Maruf – Update host site for iteration 2

Robert – Try to get frontend running again after previous merge conflict

Kliman – Create Quality Manual doc template in folder and share with team.

Assign Backlog Items: (Assigned tasks pertaining to completion of Backlog goal)

Team – work on Iteration 2 and Quality Manual and Procedure documentation.

Team – Continue with expanding vision on project

Retrospective: (What went right? What went wrong?)

Team seemed unaware of the number of new requirements this iteration had until it was addressed in lecture with the introduction of the “Peer Review” document. The time constraint will be an issue with other classes for all of us.

Frontend got most of the pages running for users.

Presentation went well other than minor glitches with Maruf’s PowerPoint.

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WEEK 13

Client:	Forestview
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Product Owners:	The Dream Team (Group 13)	Scrum Master:	Kliman Darawish, Violet Yousif
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Sprint:	Date:	04/10/2025	Time:	8 hr 45 min
Last Sprint:	Date:	04/03/2025	Time:	11 hr 15 min
Attendees:	Kliman Darawish		Abdulla Maruf	
	Robert Simovski		Jawad Rashid	
	Viktor Gjorgjevski		Violet Yousif	
Achievements:	Updated and completed Iteration 2 Documentation.			

Product Backlog: (In-progress tasks and by whom, forms to be created)
Fix the RLS policies for the Supabase database
Fix the database + Supabase backend integration

Sprint Goals: (New requirements/events, existing goals)
Violet- Clean up GitHub repo and remove excess branches. Fix security issues.
Team – Discuss iteration 3 tasks for the week

Team Availability: (Tasks and research given to members on individual time)
Violet – Make sure database is working properly before integrating with backend
Jawad – Research the AI routine creator and implementing it into the project
Kliman – Fix Supabase RLS Policies for database tables
Viktor – Work on frontend admin pages. Help with backend as needed.
Robert & Maruf – Make any final changes to the frontend code. Refine design and pages.

Assign Backlog Items: (Assigned tasks pertaining to completion of Backlog goal)
Team – Implement middleware into frontend for backend and Supabase
Violet – Fix security vulnerabilities.

Retrospective: (What went right? What went wrong?)
Kliman was unable to be in the team meeting for Thursday but had a one-on-one meeting with Violet instead.
A lot of workload and not a lot of time to accomplish it all

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WEEK 14

Client:	Forestview
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Product Owners:	The Dream Team (Group 13)	Scrum Master:	Kliman Darawish
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Sprint:	Date:	04/17/2025	Time:	9 hr 30 min
Last Sprint:	Date:	04/10/2025	Time:	8 hr 45 min
Attendees:	Kliman Darawish		Abdulla Maruf	
	Robert Simovski		Jawad Rashid	
	Viktor Gjorgjevski		Violet Yousif	
Achievements:	Set up Supabase RLS Policies and fixed tables			

Product Backlog: (In-progress tasks and by whom, forms to be created)
Write backend code and integrate it with Supabase
Write Supabase triggers to automate backend

Sprint Goals: (New requirements/events, existing goals)
Team – Start Iteration 3 documentation
Violet – Write backend trigger functions

Team Availability: (Tasks and research given to members on individual time)
Violet – Work on backend and trigger functions
Robert – Tidy up frontend UI
Viktor, & Kliman – Assist with backend and database integration
Jawad & Maruf – Create project demonstration video

Assign Backlog Items: (Assigned tasks pertaining to completion of Backlog goal)
Team – Get started on documentation
Jawad & Maruf – Create peer review video

Retrospective: (What went right? What went wrong?)
Things are running smoothly. Our main goal is finishing up the documentation.
We still need to integrate the backend and database which might take a couple days.

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WEEK 15

Client: Forestview

Product Owners: The Dream Team (Group 13)	Scrum Master: Kliman Darawish
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Sprint:	Date:	04/24/2025	Time:	5 hr 15 min
Last Sprint:	Date:	04/17/2025	Time:	9 hr 30 min
Attendees:	Kliman Darawish		Abdulla Maruf	
	Robert Simovski		Jawad Rashid	
	Viktor Gjorgjevski		Violet Yousif	
Achievements:	Completed Iteration 3 presentation			

Product Backlog: (In-progress tasks and by whom, forms to be created)

Team – Edit Final iteration documentation

Team – Prepare for presentation on Saturday

Sprint Goals: (New requirements/events, existing goals)

Group – Delegate sections per person in documentation requirements

Discuss Peer Review

Team Availability: (Tasks and research given to members on individual time)

Violet – Create presentation slides

Group – Rehearse slides

Violet – Finish backend connections to Supabase

Assign Backlog Items: (Assigned tasks pertaining to completion of Backlog goal)

Violet – Connect with Peer reviewer. Make video demo and survey for them to watch and respond

Retrospective: (What went right? What went wrong?)

Presentation went well, received positive feedback

We're behind on getting the Peer reviewers feedback, but hope to get it in a couple more days

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WEEK 16

Client: Forestview

Product Owners: The Dream Team (Group 13)	Scrum Master: Kliman Darawish
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Sprint:	Date:	04/30/2025	Time:	4 hr 10 min
Last Sprint:	Date:	04/24/2025	Time:	5 hr 15 min
Attendees:	Kliman Darawish Robert Simovski Viktor Gjorgjevski			
Achievements:	Complete Iteration Documents. Complete Peer Review Portion.			

Product Backlog: (In-progress tasks and by whom, forms to be created)

Peer Review – Analyze feedback and adjust as needed

Finish Iteration Documents

Sprint Goals: (New requirements/events, existing goals)

Discuss metrics sections and what might be unclear to members on directions

Discuss presentation feedback and peer review feedback

Team Availability: (Tasks and research given to members on individual time)

Team – Finish assigned sections of the rubric

Violet – Finish up with peer reviewer

Assign Backlog Items: (Assigned tasks pertaining to completion of Backlog goal)

Team – Finish iteration

Retrospective: (What went right? What went wrong?)

We're falling behind on iteration documents due to unfamiliarity with requirements. Some members are having trouble understanding their sections and how to write it out.

Peer reviewer had positive feedback