COMP6000 Technical Report

PT Manager

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**Abstract**

Project description

An app for managing schedules and classes for both personal trainers and clients, to be able to book for classes as well as communicate with each other. The app uses a database to store client and trainer data as well as messages to be used for better management and better communication between the client and trainer.

Results

The PTManager app permits both clients and trainers to login and gain access to specific features to manage their schedules easily. The client will be able to login at any time if they have registered and will be able to view their workout classes/programs using a calendar linked to the database. Trainers can alter their sessions as well as create ongoing workout programs that span for several days or weeks. With a class/program created the clients and trainers will be able to communicate in a group chat room specifically made for the class/program for updates or progress.

**1. Introduction**

This project aimed to address the logistical challenges faced by both personal trainers and clients by providing a comprehensive platform for managing schedules, booking classes, and facilitating communication.

The PTManager app is designed to streamline the scheduling process for both trainers and clients, allowing them to easily coordinate appointments and manage their respective agendas. By harnessing the power of a database, the app securely stores client and trainer data, as well as messages exchanged between them. This not only enhances organization but also fosters improved communication between trainers and their clientele.

Our efforts have led to the development of a versatile application designed to benefit both clients and trainers. With this app, clients can conveniently log in to access personalized schedules tailored to their fitness goals. The app seamlessly integrates with a database, allowing clients to view upcoming workout classes or programs through a user-friendly calendar interface.

Moreover, the app facilitates real-time communication between clients and trainers through dedicated group chat rooms tailored to specific classes or programs. This feature enables timely updates, progress tracking, and fosters a supportive community atmosphere conducive to achieving fitness goals.

In this technical report, we delve into the key parts of the PTManager app, exploring its functionalities, design considerations, implementation process, and the implications of our findings. Through rigorous testing and analysis, we aim to provide insights for further refinement and optimization, ultimately enhancing the user experience and effectiveness of the app in meeting the needs of personal trainers and their clients.

**2. Background**

**3. Aims**

The primary aim of the PTManager project is to develop a comprehensive application that addresses the scheduling and communication needs of both personal trainers and their clients within the fitness industry. This includes:

Streamlining Scheduling Processes: The app aims to simplify the scheduling of training sessions and classes for both clients and trainers. By providing an intuitive interface and seamless integration with a database, users can efficiently manage their schedules, book classes, and make necessary adjustments as needed.

Enhancing Communication Channels: Effective communication is essential for fostering strong client-trainer relationships and ensuring clarity regarding session details and progress tracking. The PTManager app seeks to facilitate seamless communication between clients and trainers through features such as real-time messaging and group chat rooms dedicated to specific classes or programs.

Improving User Experience: Central to the project's objectives is the creation of a user-friendly interface that caters to the diverse needs and preferences of both clients and trainers. By prioritizing ease of use and intuitive navigation, the app aims to enhance the overall user experience, making it accessible and enjoyable for individuals at all fitness levels.

**4. Project Requirements**

**4.1 Trainer/Client**

**5. Software Design**

**5.1 Initial design**

As a team, we decided to kickstart our PTManager app project by creating initial designs using Android Studio. This choice allowed us to get comfortable with the software while laying the groundwork for our app's development. Our aim was twofold: firstly, to provide a platform for giving and receiving feedback on our designs. By critiquing each other's work, we could identify areas for improvement and refine our ideas collaboratively. Secondly, these initial designs helped us visualize our app's interface and features, guiding our development process. Through open communication and iterative refinement, we aimed to create a user-friendly and functional app that meets the needs of both personal trainers and clients in the fitness industry. By immersing ourselves in the design phase early on, we ensured that our team had a clear understanding of the app's objectives and user requirements, setting a solid foundation for the subsequent stages of development. Additionally, creating these initial designs allowed us to identify any potential challenges or limitations early on, enabling us to address them proactively and minimize delays in the development process. Overall, this collaborative approach to design not only facilitated the creation of a more polished and user-centric app but also fostered a sense of teamwork and shared ownership among team members.

**5.2 Final design**

**5.3 Language and Environment**

**Database environment:**

**Language environment:**

**6. Implementation of project**

**6.1 db management/setup**

**6.2 New user registration screen**

**6.3 Log in screen**

**6.4 Client menu screen**

**6.5 Trainer menu screen**

**6.6 profile search/display screen**

**6.7 Calendar search/display screen**

**6.8 Program search/display screen**

**6.9 Classes search/display screen**

**7 Chat search/display screen**

**7.1 Notifications display screen**

**7.2 Testing**

**8. Conclusion**

**9. Future Work**

**Acknowledgements**

**Bibliography**