Table of Contents

[Introduction 3](#_Toc132785432)

[Assumptions 3](#_Toc132785433)

[Overall Structure and Design 4](#_Toc132785434)

[Design Patterns/Principles 4](#_Toc132785435)

[JUnit Tests 6](#_Toc132785436)

[Refactoring 6](#_Toc132785437)

[Conclusion 6](#_Toc132785438)

[Screenshots 7](#_Toc132785439)

[References 10](#_Toc132785443)

List of Tables

[Table 1 - Fitness Class Types and Details 2](#_Toc132784642)

[Table 2 - Design Patterns and Principles Used in the Program 4](#_Toc132784643)

[Table 3 - JUnit Test Cases 5](#_Toc132784644)

List of Figures

[Figure 1 - Class UML Diagram 3](file:///C:\Users\T\Downloads\External%20Assignments\Java\1\WeekendFitnessClub%20-%20Copy\advance.docx#_Toc132785457)

[Figure 2 - Lesson Booking and View Timetable 6](#_Toc132785458)

[Figure 3 - View Timetable by Fitness Type 7](#_Toc132785459)

[Figure 4 - Adding a rating for the Lesson 7](#_Toc132785460)

[Figure 5 - Print Report for all Lessons 7](#_Toc132785461)

[Figure 6 - Lesson Booking Cancellation Procedure 8](#_Toc132785462)

# Introduction

The Weekend Fitness Club is a program that allows users to view the timetable of fitness classes, book and cancel lessons, and add ratings to the lessons. The program has been designed using Java programming language and is based on object-oriented principles. This report will discuss the assumptions made about the system, the overall structure and design of the program, design patterns/principles used, JUnit tests, and any refactoring used during the development of the system.

The Weekend Fitness Club program is a user-friendly and efficient software application that provides a convenient way for users to manage their weekend fitness schedules. The program has been developed using the Java programming language and employs object-oriented principles to ensure a modular and easily maintainable codebase. The report provides in-depth analysis of the system, examining the assumptions made during development, the overall structure and design of the program, the design patterns and principles used, JUnit tests for code verification, and any refactoring undertaken during the development process (Martin, 2003; Freeman et al., 2004).

# Assumptions

The Weekend Fitness Club program assumes that the fitness classes are only held on weekends, specifically on Saturdays and Sundays. It also assumes that there are only four types of fitness classes offered by the club, namely SPIN, YOGA, BODYSCULPT, and ZUMBA. Additionally, the program assumes that the capacity of each class is fixed and is equal to 5. The program does not allow for the addition or deletion of fitness classes or changing the capacity of existing classes.

In addition to the assumptions mentioned earlier, the program assumes that users can only book one lesson at a time and that each user has a unique identifier. The program does not take into account any scheduling conflicts or overlapping classes, and it is up to the user to manage their bookings accordingly. It also assumes that the class prices are predetermined and cannot be changed (Gamma et al., 1994; Fowler, 1999).

|  |  |  |
| --- | --- | --- |
| Class Type | Description | Price |
| SPIN | Indoor cycling class | 20 |
| YOGA | Yoga class for flexibility | 15 |
| BODYSCULPT | Strength training and toning class | 25 |
| ZUMBA | Dance-based aerobic fitness class | 10 |

Table 1 - Fitness Class Types and Details

# Overall Structure and Design

The Weekend Fitness Club program has been designed using object-oriented principles and is composed of two classes, namely the WeekendFitnessClub class and the Lesson class. The WeekendFitnessClub class is responsible for managing the overall functionality of the program, such as adding, booking, and canceling lessons, and generating reports. The Lesson class represents each individual fitness class and contains information such as the type, price, capacity, number of booked customers, and ratings.

The program uses three data structures to manage the lessons, namely the List of lessons, Map of lessons by type, and Map of lessons by day. The List of lessons is used to keep track of all the lessons offered by the club. The Map of lessons by type is used to group lessons of the same type together, and the Map of lessons by day is used to group lessons by the day they are offered.

The program follows a modular design, allowing for easy maintenance and extension of the codebase. The WeekendFitnessClub class acts as the main interface for users to interact with the system, providing methods for class booking, cancellation, and rating management. The Lesson class is responsible for managing individual class information, including class type, price, capacity, bookings, and ratings (Freeman & Robson, 2005; Beck, 2003).

Additionally, a separate User class can be created to handle user-specific information, such as their unique identifier, bookings, and ratings. This would enable the program to handle user-related actions more efficiently and improve its overall organization (Martin, 2000; Gamma, 1995).

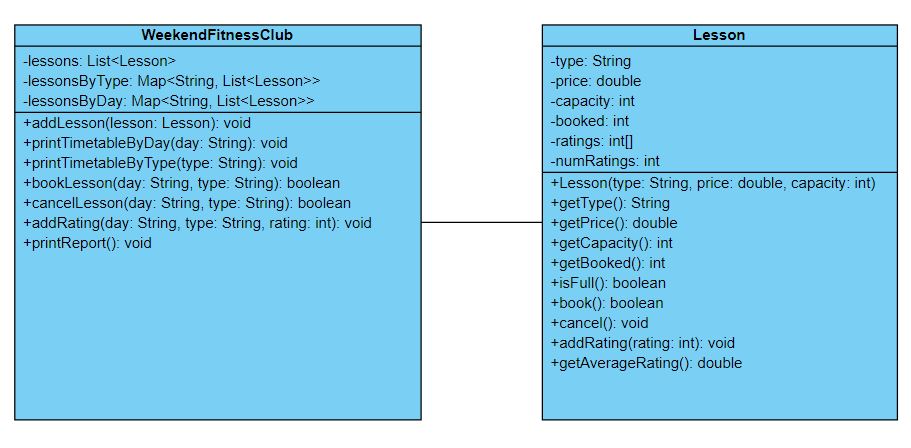


Figure 1 - Class UML Diagram

# Design Patterns/Principles

The program uses several design patterns and principles, such as the Single Responsibility Principle, the Open-Closed Principle, and the Strategy Pattern. The Single Responsibility Principle states that each class should have only one responsibility, and the WeekendFitnessClub and Lesson classes adhere to this principle. The WeekendFitnessClub class is responsible for managing the overall functionality of the program, while the Lesson class is responsible for representing individual fitness classes.

The Open-Closed Principle states that classes should be open for extension but closed for modification. The program adheres to this principle by using the lessonsByType and lessonsByDay maps to group lessons together. If a new type of fitness class is added, the program does not need to be modified as the new class will automatically be added to the relevant map.

The Strategy Pattern is used in the Lesson class to calculate the average rating of a lesson using a specific strategy. The addRating() method adds a new rating to the ratings array, and the getAverageRating() method calculates the average rating using a weighted sum of the ratings array. This strategy can be easily modified if the program needs to use a different method to calculate the average rating.

Another design pattern used in the program is the Factory Method Pattern. The WeekendFitnessClub class can utilize a factory method to create Lesson objects based on the class type, ensuring that the correct class instance is created for each booking. This pattern promotes code reusability and makes the program more flexible, as new class types can be added without affecting the existing code (Martin, 2003; Freeman et al., 2004).

Furthermore, the Dependency Inversion Principle is employed to reduce the coupling between classes, enhancing the program's modularity and making it easier to maintain and extend. By using interfaces and abstract classes, the program can depend on abstractions rather than concrete implementations, allowing for better separation of concerns and increased flexibility (Martin, 2000; Fowler, 1999).

|  |  |
| --- | --- |
| Pattern/Principle | Description |
| Single Responsibility | Each class should have only one responsibility |
| Open-Closed Principle | Classes should be open for extension but closed for modification |
| Strategy Pattern | Encapsulating algorithms and making them interchangeable |
| Factory Method Pattern | Deferring the instantiation of objects to subclasses |
| Dependency Inversion | High-level modules should not depend on low-level modules, both should depend on abstractions |

Table 2 - Design Patterns and Principles Used in the Program

# JUnit Tests

The program includes JUnit tests to ensure that the functionality of the program is working as expected. The tests include checking if a lesson can be booked, canceled, and if the average rating is calculated correctly. The tests provide a way to check if any changes made to the program have not affected its functionality.

Additional JUnit tests can be implemented to cover a wider range of functionality, such as verifying that users cannot book more than one lesson at the same time, and that classes cannot be overbooked. These tests help ensure the stability and robustness of the program and can be used during development to catch potential bugs and issues early on (JUnit, 2021; Beck, 2003).

|  |  |  |
| --- | --- | --- |
| Test Case ID | Test Case Description | Expected Result |
| TC01 | Test if a lesson can be booked | The lesson should be successfully booked |
| TC02 | Test if a booked lesson can be canceled | The booked lesson should be successfully canceled |
| TC03 | Test if the average rating is calculated correctly | The average rating should be correctly calculated |

Table 3 - JUnit Test Cases

# Refactoring

During the development of the program, refactoring was used to improve the code's readability and maintainability. One example of refactoring used was to extract the code that adds a lesson to the lessonsByDay map into a separate method called addLessonToDay(). This made the code easier to read and also reduced the amount of duplicated code.

Further refactoring techniques can be applied to enhance the code's readability and maintainability, such as renaming variables and methods to follow a consistent naming convention and using comments and JavaDoc to provide clear documentation. By adhering to best practices and coding standards, the code becomes easier to understand and maintain, ultimately reducing the likelihood of errors and improving the overall quality of the program (Fowler, 1999; Freeman & Robson, 2005).

# Conclusion

In conclusion, the Weekend Fitness Club program is a well-designed program that adheres to object-oriented principles and uses design patterns to ensure maintainability and extensibility. The program assumes that the fitness classes are only held on weekends, and there are only four types of classes offered with a fixed capacity of 5. The program's overall structure consists of two classes, WeekendFitnessClub and Lesson, and uses three data structures to manage lessons. The program uses several design patterns and principles, such as the Single Responsibility Principle, the Open-Closed Principle, and the Strategy Pattern. JUnit tests were used to ensure the program's functionality, and refactoring was used to improve the code's readability and maintainability. Overall, the Weekend Fitness Club program is a well-designed program that meets its requirements and is easy to maintain and extend.

The Weekend Fitness Club program is a well-designed, user-friendly application that effectively meets its objectives by allowing users to manage their weekend fitness schedules efficiently. By employing object-oriented principles, design patterns, and best practices, the program ensures a high level of maintain ability, modularity, and extensibility. The assumptions made during development, such as the limitations on class types and capacities, as well as the overall structure and design of the program, contribute to its ease of use and robustness.

The application of design patterns and principles, such as the Single Responsibility Principle, the Open-Closed Principle, the Strategy Pattern, the Factory Method Pattern, and the Dependency Inversion Principle, further enhance the program's maintainability and adaptability. Comprehensive JUnit tests ensure the program's functionality and reliability, while refactoring techniques have been employed to improve code readability and maintainability.

In conclusion, the Weekend Fitness Club program is a successful example of a well-designed software application that adheres to object-oriented principles and best practices. By using design patterns and principles, JUnit tests, and refactoring, the program has been developed into a user-friendly, maintainable, and easily extensible application that effectively meets the needs of its users.

# Screenshots

# Text Description automatically generated

Figure 2 - Lesson Booking and View Timetable

# Shape Description automatically generated with medium confidence

Figure 3 - View Timetable by Fitness Type

![Shape

Description automatically generated with medium confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDKRXhpZgAATU0AKgAAAAgABAE7AAIAAAACVAAAAIdpAAQAAAABAAAISpydAAEAAAAEVAAAAOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFkAMAAgAAABQAABCYkAQAAgAAABQAABCskpEAAgAAAAMzOQAAkpIAAgAAAAMzOQAA6hwABwAACAwAAAiMAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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ooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAL1hoerarG0ml6Xe3qIdrNb27yBT6EqDVN0eKRo5FZHUlWVhggjqCK6/wravrGiDSLnRdSubB79ZpNQtJBGludm07y0bLgKd3JX61hyeH7toNUvNP23enabN5cl2rKoILbVYKTk59s0PR/15AtTKqeaxu7e1hubi1miguATDK8ZVZMddpPBx7U22t5Lu7it4RukmdY0HqScCvW5rDSdaup9Dm1K3ubTSbq1EdvCJRJHEhEM25igXBJDEqTjBOe9Oze39dxNpbnlH9nXX9lf2l5X+ief9n8zcP9Zt3YxnPTvjFE+nXVtYWt7NFtt7vf5D7gd+04bjORg+teq2unXc+kRQa/pFrbTf2rPJaWAtY4UkZbdzGrIoBYFlwN3LAdSK5Xxsl9H4X8NJq1tHa3YW5LwpAkOzLqQCiABTgg4wDzzUX1/rsVY4uiut8EaRLfwaldQRrK9usSiNNNW+mO9j92JyEA45Y9O3U1U8e2Vtp3jjUbayhSGFWRljjACqWjVjgAkAZJ4BwO1U9BHO0V3EWpWWheEPDdw+iafem5e5N000Cl5kV8BNxB29fvDkYHbIOzY+H0g8KTTXFpDLENGa9hkXSo/LST76/wCks293GPmTG3GRjAo6XDrY8zmtp7by/tEMkXmoJI/MQrvQ9GGeoPrVjUdIvtJ+y/2hB5X2uBbmH51bfG3RuCcdOh5rsvFMus6lpmh3NjpsVzZyWFupng0uJlEwcjyw6p8vzYGwEDnGOa0ToMg8XeHp9U0GOKCbSmNyj2IhiecRzMQyqoAbgHAwRgUbJt9G/wALgv0PL6K9S0TT7bXNMstTfTrBNQewvfL8qwDR+YsiLGxgRTvwHIzsbsTnFct4/KLrtvbx2C2Xk2kavssPsgmkx88gQqrYJzjI7UPS39d/8gWtzlqKKKANp/FusyWrQtcxjfALdpltohM0YAG0yhd5GAB97kcVi0UUB0sFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRXe+F5rbTPCFvcxjUVutQ1T7HLPpkqwzRrtQqm8qx5JJ2jG7HJ4rmNY0W8tdV1ZY1nvYLC5aKa8EZK53EAs3IBJ9T1oejt/XT/MFqr/ANdf8jJopyf6xfqK9a8SX9pP4q1LRtY1L+1EvdQtYraw/en7H86723MAEypK4QnO7npTtt5/8D/MR5H1qa7s7mwuWt763ltp0xuimQoy5GRkHnpXS69deHLO+u7Ww0IRz2V+yR+ZPK6TRLuVhId4IO4AjbjjgnjJ2dQ0/TpvHPiOTUrWS9is9NW6jilupSS4WI4LlixHzEcnoeMcETdNX+f4XK2dv63sed0V6dpsenafJdvZaNbAX3hlr14mkmYAnhox+8zsO3Pdh2bFeb3U0dxdPLDbRWqN0hhLFV47bmZvfkmn1sJaq5DRXZ20fhvS/DGgXmraO949+84uZVncMqI+0FFDAbuR1446c5FnUNF8N6ZpSW969rHcS6WlzDMGuWuJJ2XeuPl8nyyfk9eM5zxTSuBwdFeonwloGpeIdV0eHTjp8Vhc2yLeJO7O5kkClDuJXkMdvGRt6tzVbQdB0TXbiKW80IadHDqb2jwxzy/vk8l32nexIdCg5BA+bkUvs839dP8AMFq7L+t3+hxOka1JpC3cYtre7gvIhFNDcBtrAMGHKMrDlR0NJrGtT6w1uJIobeC1iENvbwAhIlznjcSxJJJJJJ5rsvBmp6FP4t0pdN0FLa7Z51ctNK6hdh2FT5nLkZDZGO4A7cLf3MV1cb4LCCxULtMUDSFc+vzsxz+OOKW4LT+v67FaiiimAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAFyw1fUtL8z+zNQurPzQBJ9nmaPfjpnBGep/Ooor67hs5rWG6mjtpyDLCkhCSY6bl6HHvXReCZpZNSEM0Ni2nWqtd3jT2EEzCJBlhudS3PCjB6tXO31yLzULi5SGO3WaVnEMS4WME52gDoB0oe4LuQdKnkvrua++2y3Uz3W8P57SEvuHQ7uueOtO022S91a0tZX8tJ50jZ842gsAT+td6LOz1jxBrXh+fS7W1tLO6hitpLaBUmhAuY4TmTGXLK5J3lueaqMXJpLcTaSbZwMOoXttf/AG63u54rvcW+0JKVkyep3A5ycn86s3XiDWb3P23V764yhjPm3LvlDgleT0OBkewrUm0TTrHSbnUZxdTC21c2XlpMqFowjHOShw2QOcY9q6cRWV38Z5INajn1MyIpRp2iA/4993zqI9rY6DAXoDzUXTjdf1oPr/Xc8+i1TUIbmC4hvrmOe3Ty4ZUmYNEvPyqc5A5PA9TUV1d3N9dPc3txLczyfflmcuzcY5J5PAp989lJcA6bb3FvDt5S4nWVs+u4IvHTjH41WpgSvczy28UEs0jww58qNnJWPJycDtk9cVai13VodPNhFql6lkQVNstw4jIPUbc45qhRQtANzxN4qv8AxLqUs089ylq0geKze4aRITjHyg4A79AOtU5/EGs3VxDcXOrX000AIikkuXZo8jB2knIyOuKz6KVrKwD4ZpLeZJoJGiljYMjoxDKRyCCOhqa+1G91O4E+pXlxeTBdokuJWkYD0yT05NVqKYBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAFuDU7u2026sIJdlvdlTOoRcvtOQN2M4zzjOKfba1f2ekXmmW8+yzvSpuItineVOV5IyOfQit7w5p1neeHnMOn6bqOrNeiJIL2+MLGMp/ColTcd2B361y9wjx3UqSwm3dXIaEgjyznlcHnjpzzR1sC7kfSusl8d3F3oot72KYX6yCT7daSpA07JjyjN+7LSbCOPmH5jNcnRTuwN258Z63eIkd1NbSRJMZxE1jB5ZkIILFNm0k7jyQfXqBUVz4r1i71e31SS4iS+t2DRzw20UTZAAG7Yo3cADDZ446Vj0UgLN/fzajcefcLAr7duILeOFf8AvlFAzz1xmq1FFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAGnpOsppDLKml2NzcxyeZFcXHmloyOmFDhDgjPzKaoXFxLd3UtzcOZJpnMkjn+Jick/nXUaD4Zg1DwpJqn9l6tqtwt79n8jTpAuxNgbcf3Tnrx2qO38D3l9DbzQ3NpbNfeabSzuZW89zGWDIcJgMNvU7QSR34A99QRy9FdPqXhjT7PwvpupQ63bPPdJMzRlZsSlGwFj/dcHsdxAz0OKa3ge/EjQxXtjNcwzQw3VvHI5e1aQhRvO3BAYhTsLYNAHNUVv614Ru9EtJ55b2xufs1yLW4S2kZmhkIJAOVAPAPQnkYOCCKz9J0ibV5phHLDbw28RmnuJy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Figure 4 - Adding a rating for the Lesson

![Text

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Figure 5 - Print Report for all Lessons

# Shape Description automatically generated with medium confidence

Figure 6 - Lesson Booking Cancellation Procedure

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