ISEN ASSIGNMENT -1

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2. Exercise Problem Description

3.1 Requirements and Planning:

1. The requirements for the FitTrack system are as follows:  
   Mobile **App  
   :** The system must have a mobile app **that** **allows** customers to **log** activities, select goals, view fitness statistics, and manage subscriptions.  
     
   Goal Selection: **Clients** should be able to select a **goal** such as weight loss, muscle gain, or endurance. **You** should also be able to choose optional extras **like** **meal** plans and **coaching.**  
   **Integration** **with**  
   FitTrack **Smartwatch:** The system needs to **be** **integrated** with the FitTrack **Smartwatch** to track steps and heart rate.  
   Customer **Management  
   :** The system **aims** **to** allow administrators to manage customers, including creating and deleting accounts, updating personal information, and viewing **health** history.  
     
   Subscription Management: The system should handle subscriptions, including allowing customers to sign up for and cancel subscriptions, and enabling administrators to manage available extras.  
     
   Activity Tracking: The system should track customer activities, provide feedback and suggestions for meeting goals, and send periodic notifications.  
     
   Visualizations: The mobile app should display visualizations of fitness and health statistics over time. The colors of any visualizations should be color-blind friendly and high contrast.
2. Actor identification: **Customers:** **The** primary user of the **application** who **logs** activities, selects **destinations,** and subscribes to the service.  
   **Administrators:** **Manage** the system, update **achievements** and **add-ons,** and **manage** **clients.**  
   FitTrack Smart **Watch:** **A** device that tracks **your** steps and heart rate.  
   Subscription Payment **Service:** **An** external service that **supports** subscription payments.  
   Customer Support **–** provides **customer** **support.**

3.2 Version Control