**AED Final Project Proposal**

**Project/Problem Overview:**

* In this digital world, everyone is engrossed into their gadgets with almost zero scope of going out for an enthralling adventure in the Nature. It is a universal fact that going out in the natural landscape is good for an individual in terms of spirituality, mental health and fitness.
* Hence, we have come up with an application for a hiking organization that explores, writes and document treks. Through this application users can access numerous treks around India and book hikes organized by the organization.
* The application aims to simplify the where to? and how to? questions of an individual with a goal to summit a peak.
* By understanding customer convenience, we embedded an enterprise that works on buying and renting sports equipment.
* This application reduces a user’s hassle of going to different places for booking a trek and buying equipment for the trek. This in turn also helps to generate revenue for the two enterprises as customers of hiking company tend to buy trek gears from the sports equipment store and vice versa.

**Key Functionality:**

1. **Journey to Nature - A Trek Organizing Company:**
2. Addition of hikes with required information such as trail name, duration, itinerary, directions, equipment required for the trek, difficulty level, location and weather.
3. Updating the available hikes present in the database.
4. Booking tab for users to book a trail of choice
5. Assigning trek leaders for hikes and maintaining it in the database.
6. Sending notifications to existing users about an upcoming hike.
7. Scheduling training events for people to learn hiking necessities from an expert.
8. Storing user reviews
9. Giving group discounts and extra discount to returning customers
10. Generating dashboards for popular treks, peak months for hiking, average age of individuals booking a specific trek.
11. **GearUp – A Sports Equipment Store:**
12. Addition of equipment of various kinds of sports that include trek gears.
13. Updating the price and details of existing equipment.
14. Buying and renting sports equipment to customers using a well-designed product catalogue.
15. Maintaining sales data and revenue of the organization.
16. Invoice generation for every order.
17. Discounts on equipment on basis of different factors.
18. Recommending trek gears to users according to the trail difficulty and weather conditions.
19. Generating dashboards for popular products, brands, revenue of different sections of sports.
20. **Proposed Entities:**

* Customer - firstName, lastName, dateOfBirth, address, username, password, trekExperience
* Employee - firstName, lastName, dateOfBirth, address, username, password, workExperience
* ProductDirectory
* Products - name, uniqueId, costPrice, sellingPrice, description, category, offers
* Order - customer, date, totalPrice, totalItems, productList
* TrekDirectory
* Treks - trailName, duration, itinerary, directions, equipmentRequiredForTheTrek, difficultyLevel, location, weather, assignedTrekLeader, supportStaffList,
* BookingDetails - customer, date, totalPrice, trekList, noOfTrekkers,

1. **Ecosystem Architecture**

