

Beyond Bottles

Navaneeth Nidadavolu

Dania Jaison

Likith Nemani

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Beyond Bottles

Navaneeth Nidadavolu(Current Leader)

Dania Jaison(Next Lead)

Likith Nemani

Github Repo: <https://github.com/navaneethnivol/CS161-Team-BeyondBottles>

Beyond Bottles

- **Alcohol addiction** is one of the **major issues** in the world and is leading cause of preventable deaths in the United States
- The main aim of our study is to **motivate people who are addicted to alcohol to overcome the addiction and lead a healthy lifestyle**
- Current apps are inclined towards reactive care and commercialization
- Our app is based on proactive continuum care approach **Persuasive** approaches & **Discussion** oriented approach like peer to peer network and self control
- **Token** and **Reward based** approach are taken into consideration.



Discussion Oriented Approach

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Persuasion

Token and Reward Oriented Approach

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Job Assignment per Individual

Navaneeth: Project management, backend development and deployment.

Likhith: UI/UX design, frontend development, deployment and testing

Dania: Backend development, UI design, integrations and data collection about alcohol rehab.

Milestones

- **Milestone 1** (2/5 - 2/16): Planning and Architecture Setup
- **Milestone 2** (2/19 - 3/2): Backend and Database Implementation(for user management, authentication & registration)
- **Milestone 3** (3/5 - 3/16): Frontend Development and UI/UX Design
- **Milestone 4** (3/19 - 3/30): Core Features Implementation (CRUD implementation and geotracking)
- **Milestone 5** (4/2 - 4/13): User Engagement and Social Features(Peer support & reward system)
- **Milestone 6** (4/16 - 4/27): Testing, Iteration, and Deployment

Technology Stack

- Frontend (Mobile App): Java, Kotlin
- Backend: Python, Flask, MySQL

Algorithms Used

- **Authentication:** bcrypt for password hashing and salting for secure storage of user passwords.
 - Time: $O(n)$ where n is the length of password.
- **Leaderboard:** to retrieve the top 10-50 users. We will use Quick Sort algorithm, to sort the points table.
 - Time: $O(n \log n)$ where n is the number of users.
- **Database (CRUD Operations):**
 - Time: Generally, for a well-indexed database, CRUD operations can range from $O(\log n)$ to $O(n)$.
- **Full-Text Search:** To search the articles using Full-Text search and GIN (Generalized Inverted Index) Index.
 - Time: Insertion - $(n \log n)$ and Search - $(\log n)$

Market Space & Selling Points

Proactive Continuum Care: Offering proactive, ongoing support for alcohol addiction recovery, focusing on prevention and long-term well-being.

Intuitive and User-Friendly UI: Prioritizes a user-friendly design, ensuring individuals navigate seamlessly through the app, enhancing their overall experience.

Rehabilitation Knowledge: Providing valuable information about rehabilitation, BeyondBottle equips users with insights into the recovery process, empowering them with knowledge to make informed decisions.

Market Space & Selling Points

Knowledge Exchange: Facilitating knowledge exchange, the app encourages users to share experiences, insights, and strategies, creating a collaborative environment that fosters learning and growth.

Community Support: BeyondBottle extends a helping hand through a supportive community network, enabling users to seek guidance and share challenges with fellow community members for mutual encouragement.

Point-Based Reward System: To further incentivize engagement, BeyondBottle implements a point-based reward system. Active participation in posting and replying to the feed earns users rewards, encouraging a dynamic and interactive community

Partner Team's Feedback

Team Name: GitInsight

Feedback for us:

- Come up with a point system criteria for the leaderboard
- Add moderator feature for admins
- Add a feature to upvote/downvote posts to weed out irrelevant posts and highlight good ones.

Thank You