



CHRIST
(DEEMED TO BE UNIVERSITY)
B A N G A L O R E • I N D I A

Wardrobe Wizard

by

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Software Requirements Specification for Wardrobe Wizard

1. Problem Definition

Managing a personal clothing inventory can be a daunting task, especially for those who own a large number of clothes. It's not just about keeping track of what you have, but also organizing them in a way that makes sense to you. It's easy to lose track of what you own and end up buying more of the same thing or forgetting about items you already have.

Furthermore, with changing fashion trends and evolving personal style, it's important to regularly assess your wardrobe and make decisions on what to keep, donate, or sell. This process can be time-consuming and overwhelming without the right tools. That's where a dedicated mobile application comes in handy.

With features such as inventory tracking, outfit planning, and donation/selling options, a clothing management app can simplify the process and save you time and money and also help us make better use of our clothes in a sustainable way.

2. Requirement Specification

2.1 Functional Requirements

The functional requirements of the Wardrobe Wizard app are:

- **Inventory management:** The user can add, edit, delete, or view their clothing items in their inventory. The user can also categorize their clothing items by type, color, pattern, season, occasion, etc.
- **Outfit recommendation:** The user can request outfit suggestions from the app based on their preferences. The app will use machine learning algorithms to generate three outfit options for each request. The user can rate each outfit option by liking or disliking it. The app will learn from the user's feedback and improve its recommendations over time.
- **Outfit planning:** The user can plan their outfits for different occasions using the app. The user can select an occasion from a predefined list or create their own custom occasion. The app will

suggest outfits based on the occasion and the user's preferences. The user can save their planned outfits in a calendar view and set reminders for them.

- **Fashion discovery:** The user can discover new fashion trends using the app. The app will show the user popular outfits from the Polyvore dataset or other online sources. The user can browse through different categories of outfits such as casual, formal, seasonal, etc. The user can also search for specific outfits using keywords or filters.
- **Donation/selling:** The user can donate or sell their unwanted clothing items using the app. The app will provide information on nearby donation centers or online platforms where the user can donate or sell their clothing items. The app will also track the user's donation or selling history and provide feedback on their environmental or social impact.

2.2 System Requirements

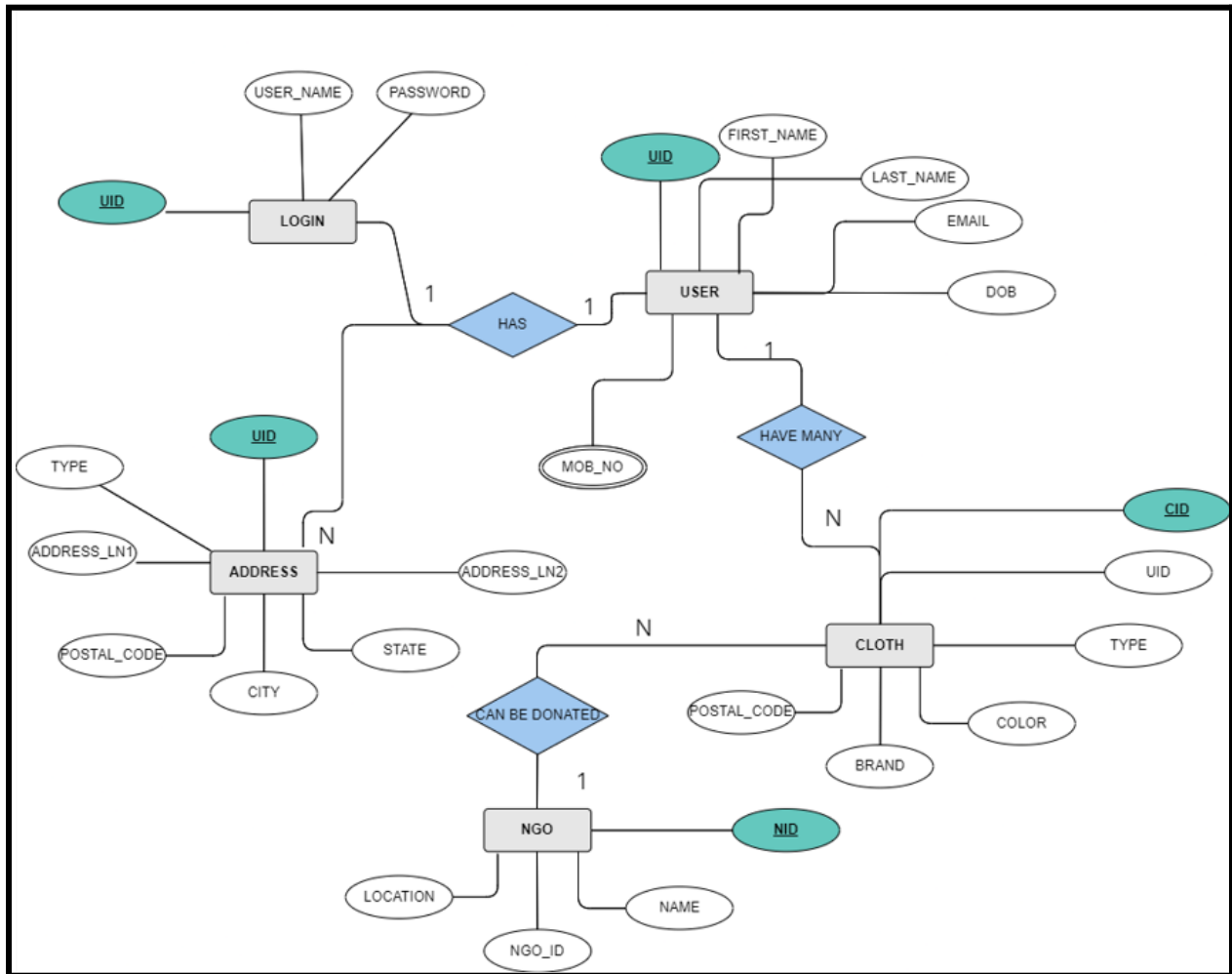
The system requirements of the Wardrobe Wizard app are:

- **Hardware requirements:** The app will run on Android devices with internet access.
- **Software requirements:** The app will use Firebase for data storage and authentication, Google Cloud Platform for machine learning processing and hosting APIs, and Dataiku for creating machine learning models.
- **Interface requirements:** The app will have a user-friendly and intuitive interface that follows the design guidelines of Android platform.
- **Communication requirements:** The app will communicate with Firebase, Google Cloud Platform, Dataiku, and third-party services using RESTful APIs and JSON format.

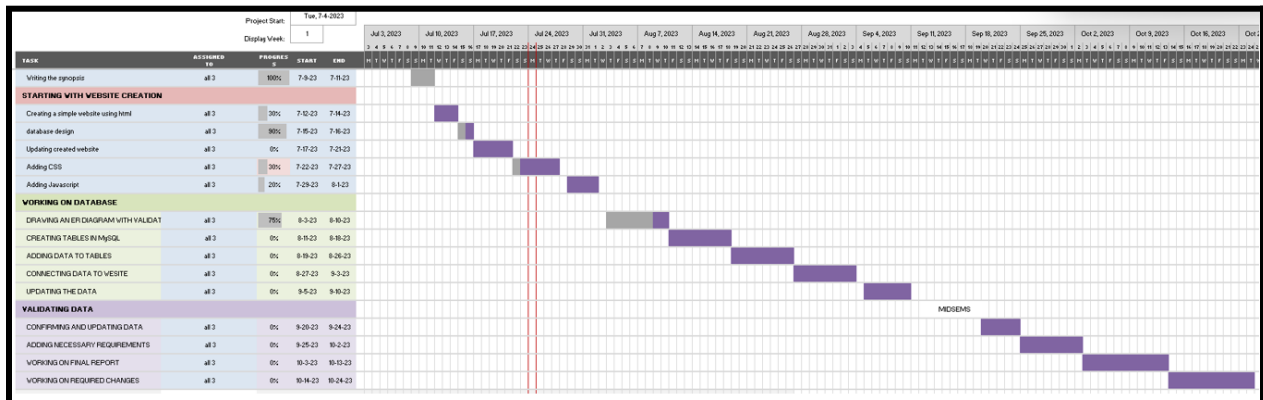
3. Conceptual Model

3.1 Data Flow Diagram

3.2 ER Diagram



3.3 Gantt Chart



3.4 PERT Chart