

DAT250 Design Document

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Feature Set

Account creation and management

Users can create personal accounts within the system, providing information and gaining further access to features, such as poll creation and community interactions (TBD)

Poll creation

Logged-in users can create YES/NO polls on topics hosted on the service. The polls can be customized by the user, providing information such as titles/topics and descriptions. Furthermore, users can configure the polls time limit and accessibility.

Voting on polls

Both anonymous and logged-in users can view a poll and respond with a YES or a NO vote. These polls are accessible either via a search or via a link

Community groups (TBD)

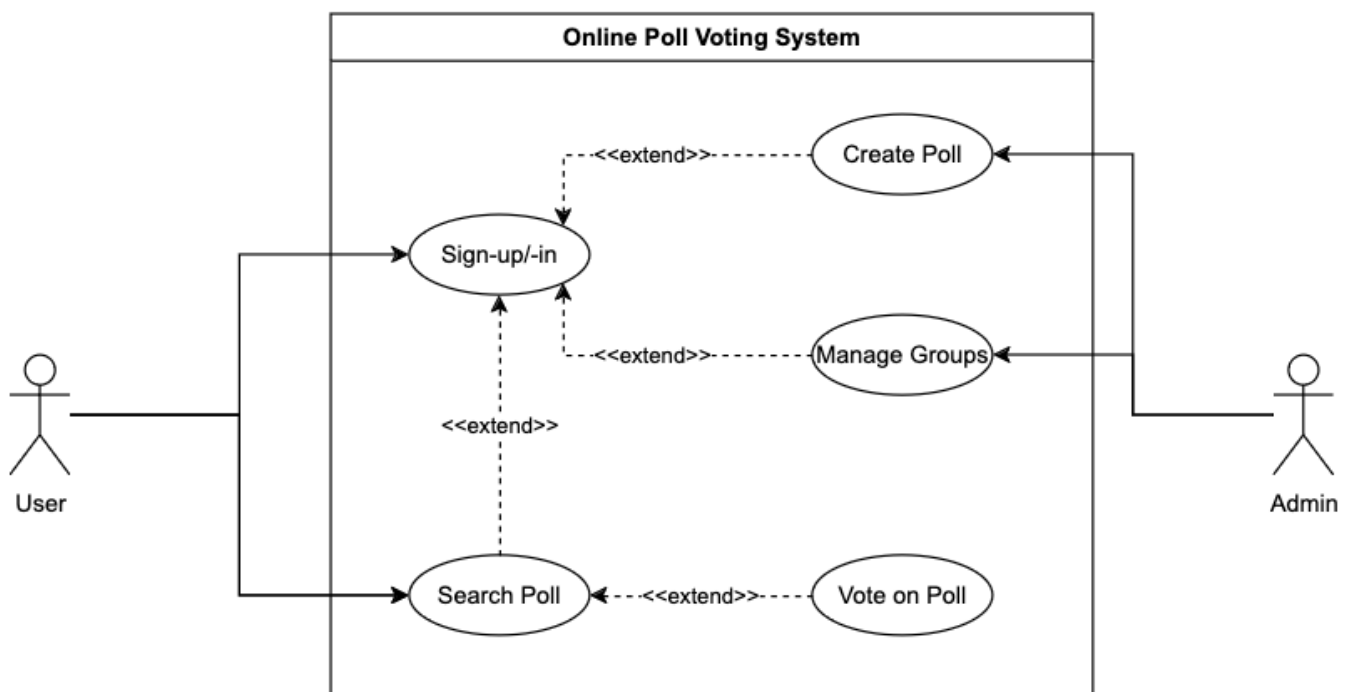
User created groups can be created to centralize polls around certain themes or a subset of users. These groups can therefore be configured and administered by the users themselves.

API

The system will support an API for fetching poll information and results. This will allow for other services to obtain and analyze analytics data for their own use.

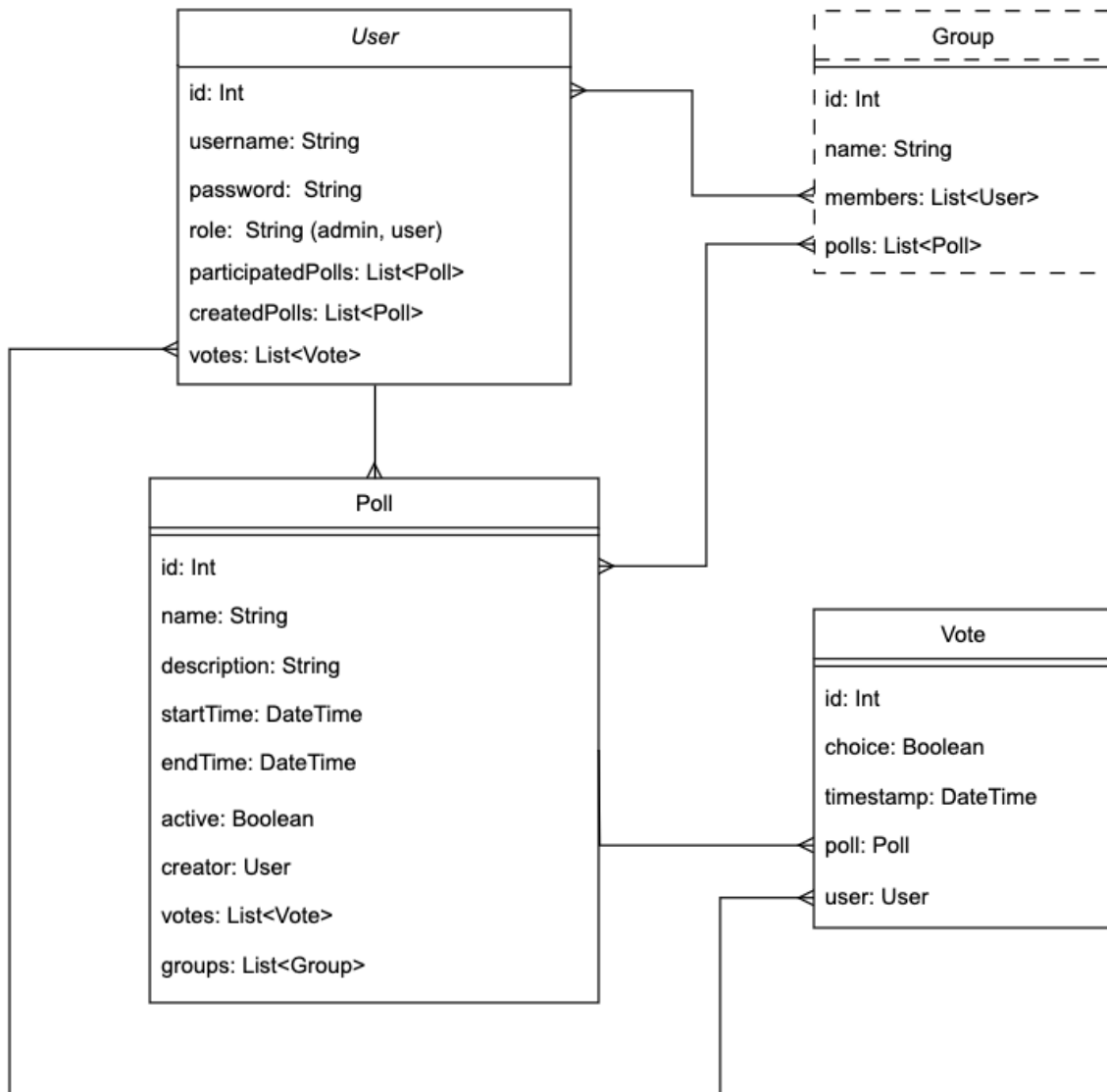
Use Case Diagram

This general use-case diagram showcases the simple features of the poll voting system. The system can be accessed by the primary actors (User) either by direct link to public polls in which the user can interact anonymously, or can log-in to the system and create polls and manage groups. The secondary actors (Admin) are able to administer the system by configuring the polls and users.



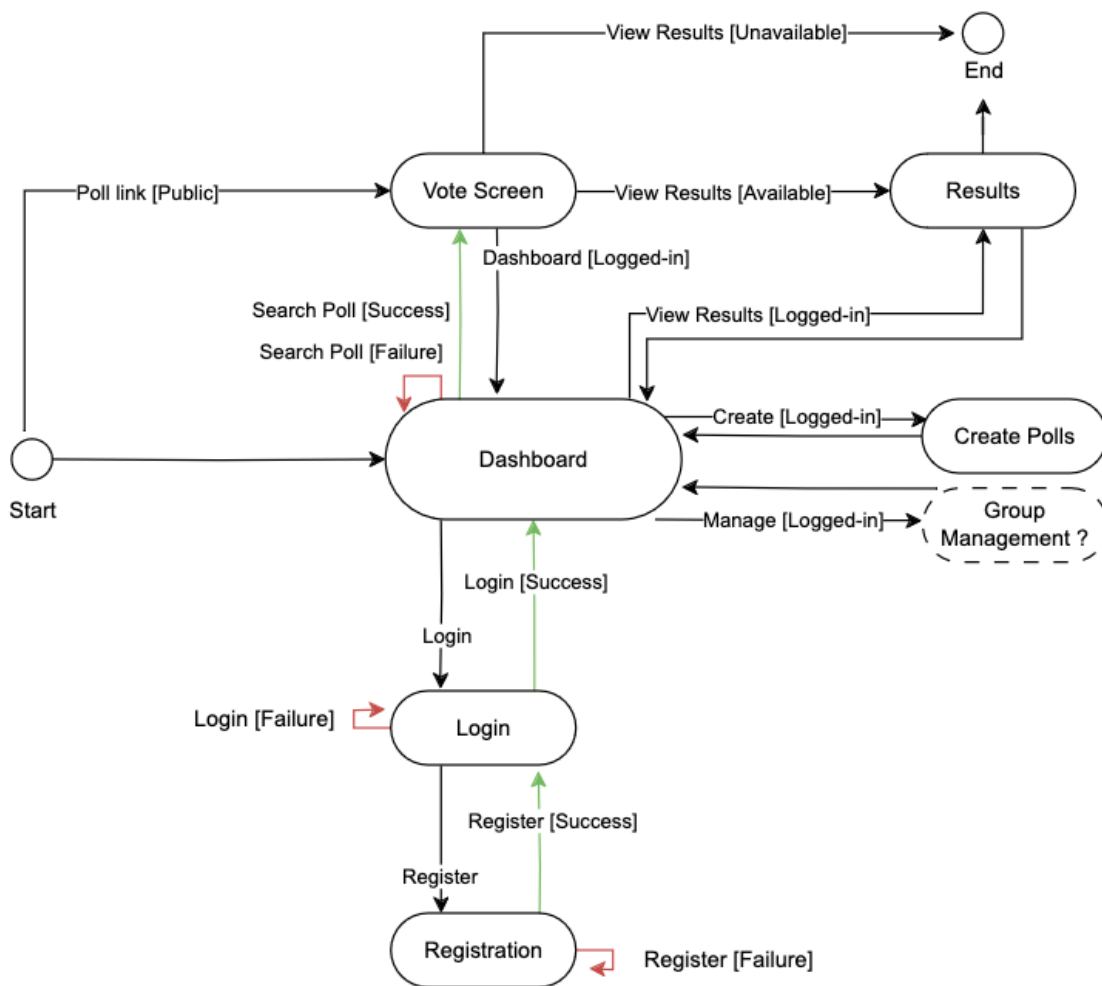
Domain model

The domain model outlines the essential entities and their relationship that are crucial for the functioning of the system. These entities include Users, Polls, Votes and Groups. They are stored in the database serving as a backbone for the applications data layer. It is important to note that classes that handle application logic and helper functionalities are not included in this domain model.

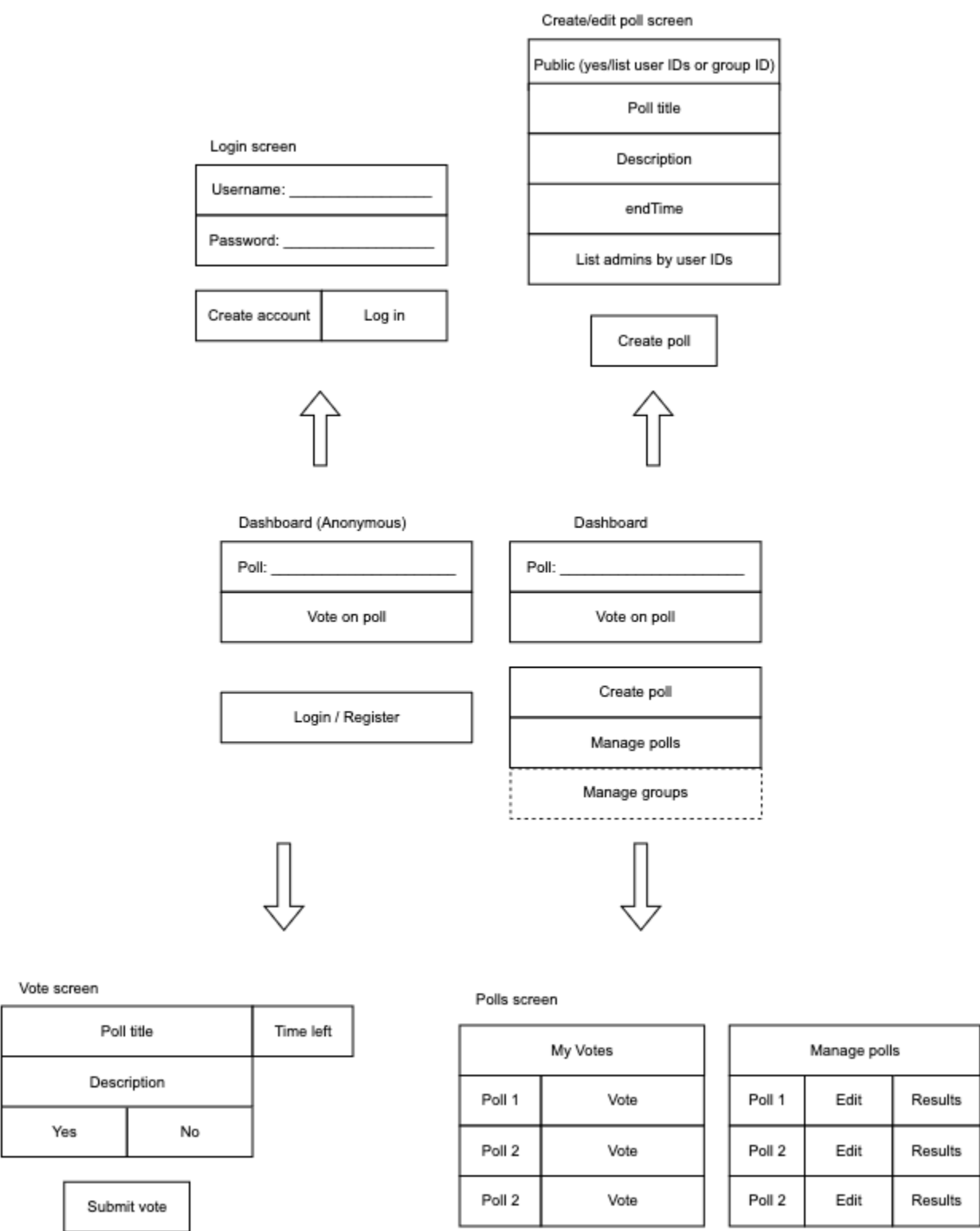


Application Flow Diagram

The application entrance point depends whether the user is logged-in or not, as anonymous voting for public polls will be available. However, as can be seen by the application flow diagram, many of the front-end pages and features are only available to logged-in users. Redundant transitions are omitted in this diagram, such as all logging-in users are sent to the anonymous dashboard page if they log-out.



Mock-up User Screens



System-specific Architecture

The system-specific architecture showcases the levels of the system and how they will communicate with each other. Note that the specified technologies used are yet to be determined.

