

# Technical Design Document

DigiSign (CIS 4250)

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## Technology, Platform, Tools, and Resources

1. What is the target platform of your project?
  - Website application
2. What is the development platform? (.NET, Node.js, Java, Unity 3D, Cobol, C++, etc.)
  - PHP
  - Javascript
3. Where will your source code be hosted (SVN, Git, etc.)?
  - GitLab
4. Are there any third party SDKs or APIs that you will use?
  - MySQL
  - Bootstrap
  - YouTube (embedding iframes)
  - Google ReCaptcha
5. Identify any existing software that you will use as a starting point (e.g., someone else's game demo, mobile app starter kit from a tutorial, etc.)
  - We do not need to use any existing software
6. Do you need to get other assets (images, artwork, models, etc.)? What are they? Where and when do you plan to get them?
  - We need to create fake advertisements for the system to display during testing or demos.
  - These will be created by us or come from copyright free websites
  - We will obtain them on an as-needed basis
7. Do you need a database and/or a virtual server to host the project data? What kind of database? What kind of server?
  - We will use a MySQL 5.7 database
  - The database and website will be hosted on the 1&1 IONIS inc. server (paid subscription)

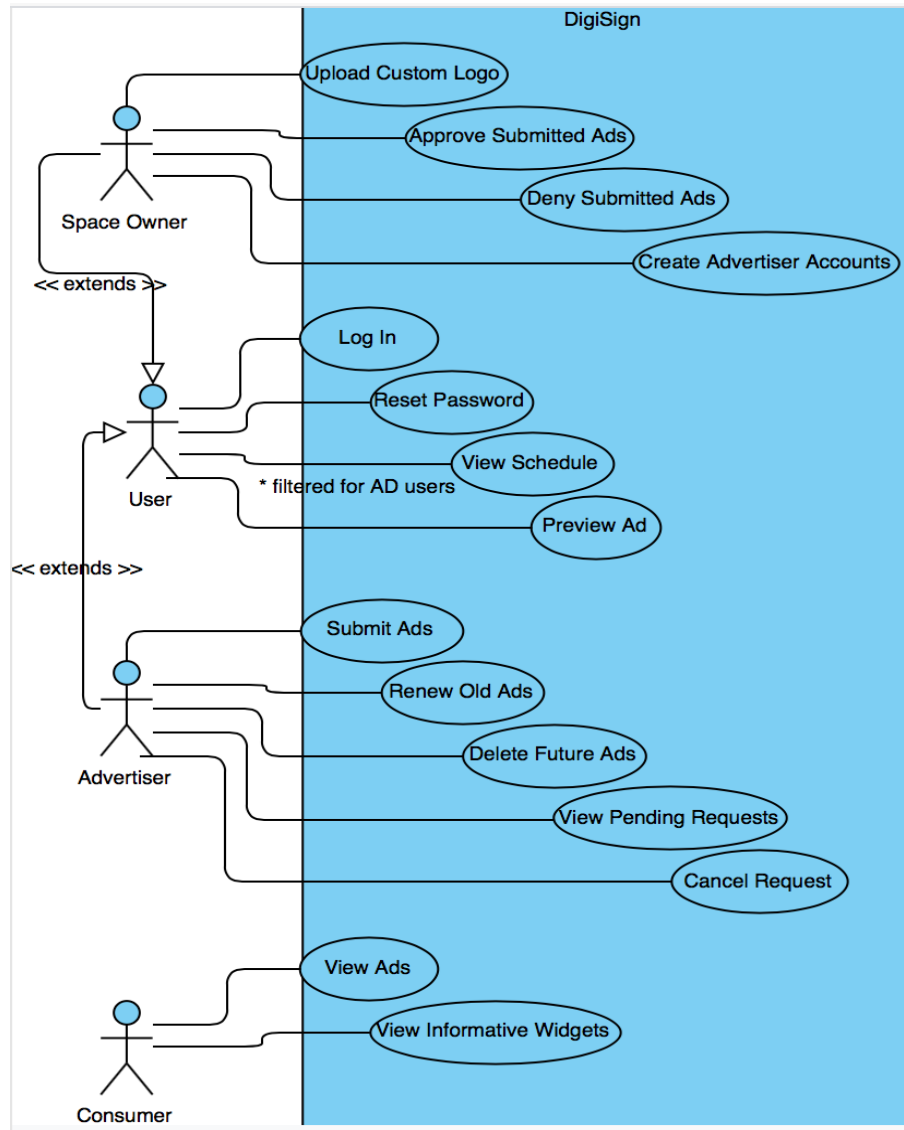
## Milestones, Roles, and Responsibilities

Our goal is to build a digital signage system as a web application. The system will allow advertisers to upload advertisements to the system and request a time slot using start and end dates. The request is sent to space owners who have advertising space available to that advertiser. Approval or denial is given by space owners, allowing them to curate the list of advertisements displayed in their space.

Space owners are required to approve the timing and content of advertisements slotted for their space, manage their account and create advertiser accounts, schedule advertisements, and manage advertisement dates. Advertisers are able to upload image advertisements, link video content from Youtube, and manage the dates of their advertisements. All information regarding advertisements will be hosted in a database table which can easily be retrieved and displayed in a space for consumers to view.

# Architectural Models

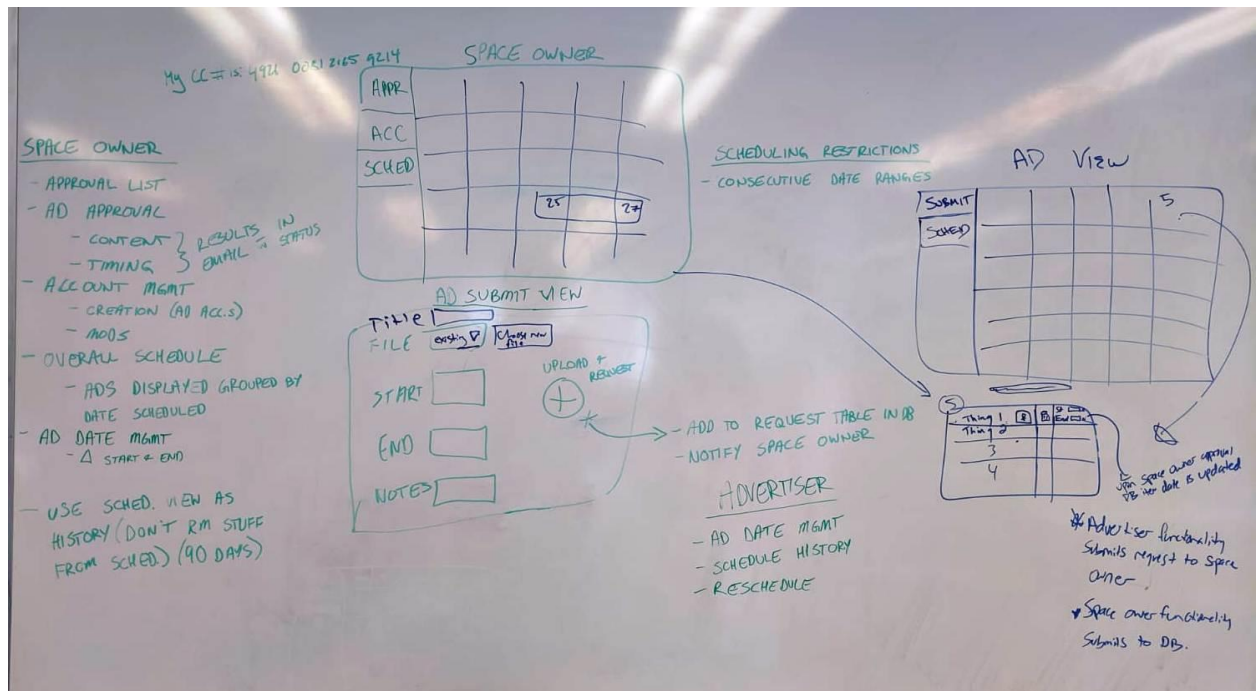
## Use Case Diagram



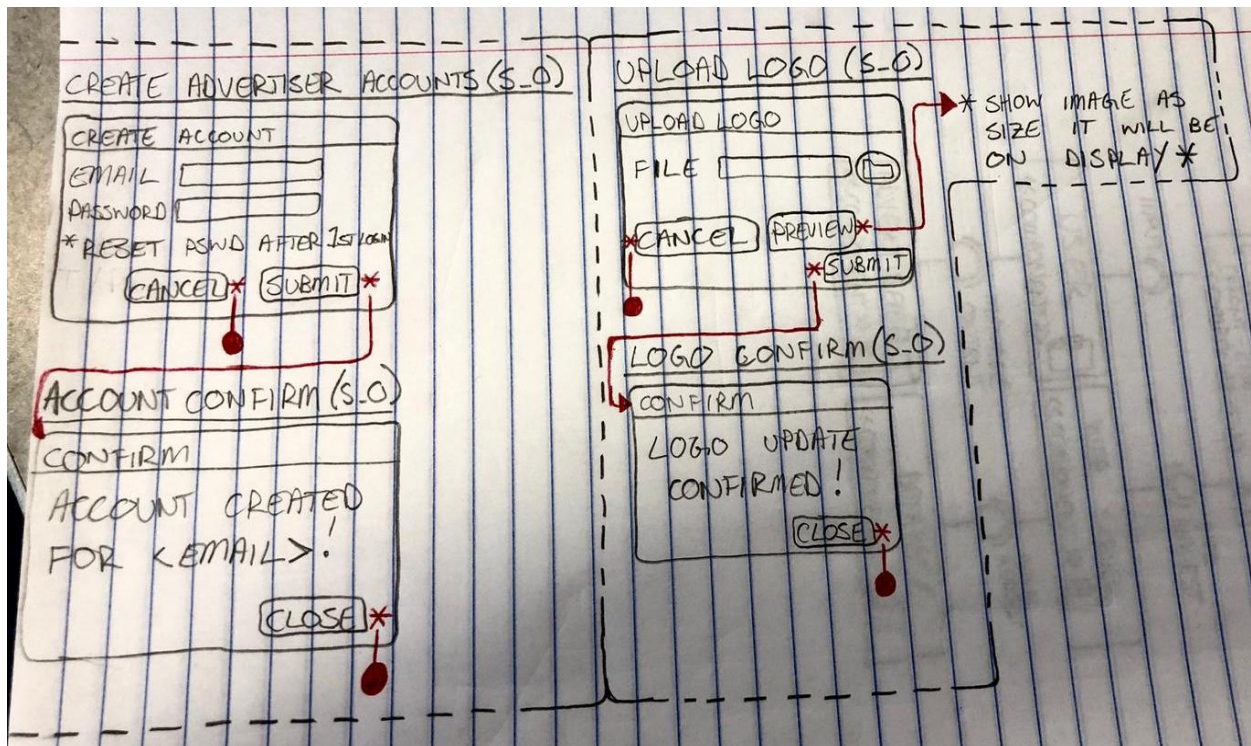
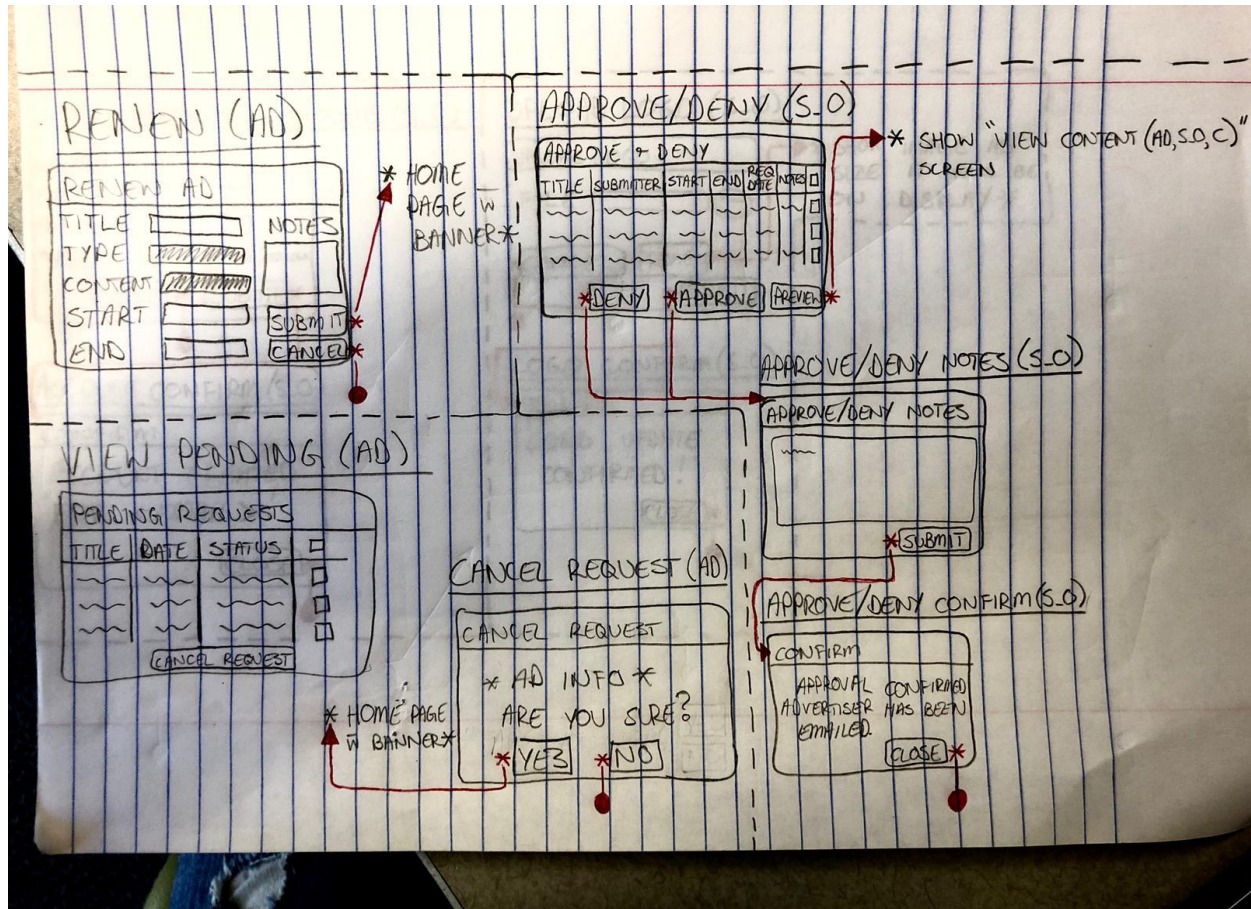
## Use Cases for Alpha Demo

- User:
  - Login
  - Preview Ad
  - Reset Password
- Advertiser:
  - Submit Ads
  - View Pending Request
  - Cancel Pending Request
- Space Owner:
  - Approve Ads
  - Deny Ads
  - Create Advertiser Accounts
- Consumer:
  - View Ads

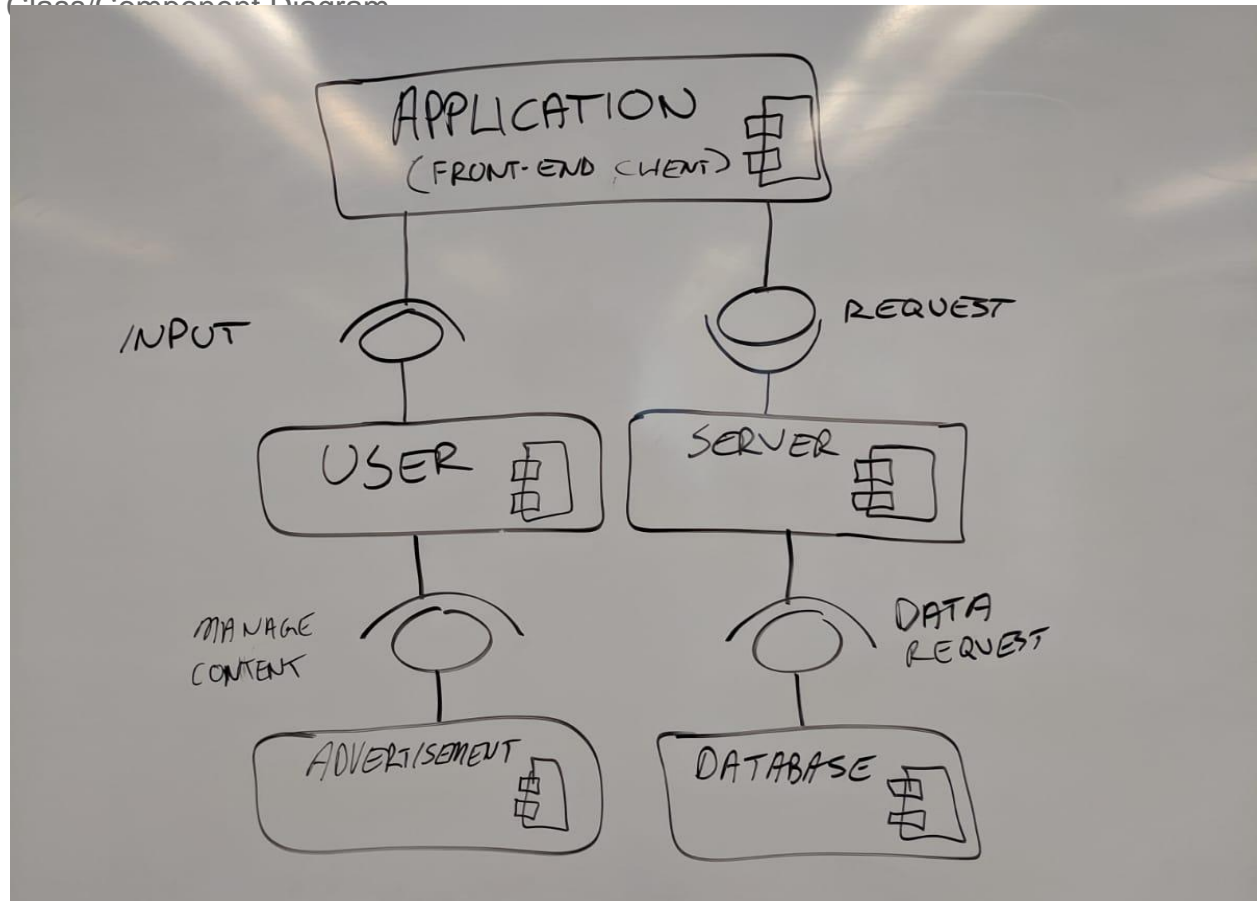
## UI Mockups



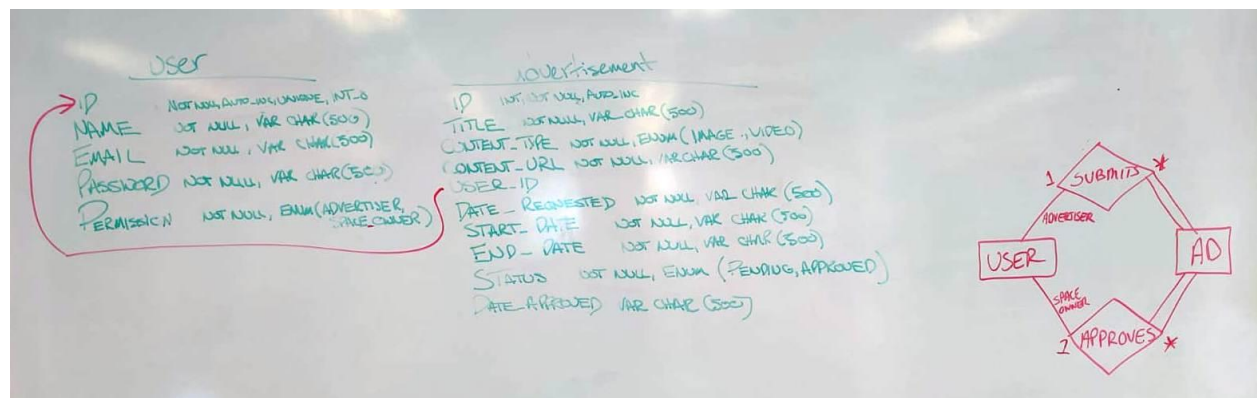




## Class/Component Diagram



## DB Table Layout & Entity Relationship Diagram





## Other Design Diagrams

