

Crime Admin and User Portal Design

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Client Information

Company - Chuqlab

CrimeMiner software

- Law enforcement uses this software to search through audio and video files
- Admin portal provides functionality to view user activity on CrimeMiner and generate analytics

Business Requirements

- BR1- We need to be able to manage over the software directly as an administration.
- BR2- We need to allow businesses to assign super admins with permissions to manage their organization.
- BR3- We need to allow businesses to assign admins to manage over their employees using CrimeMiner.
- BR4 -We need to allow admins to add or remove users.
- BR5 - We need to allow admins to see CrimeMiner usage data.
- BR6 - We need to allow users the ability to manage login information.
- BR7 - We need to allow users the ability to view usage metrics/analytics.

Use Cases

- UC1 - Super Admins can create organizations
- UC2 - Admins can assign Admins
- UC3 - Admins can add/remove users
- UC4 - Users can reset password
- UC5 - Users can view usage metrics
- UC6 - Admins can view user usage metrics

Functional Requirements

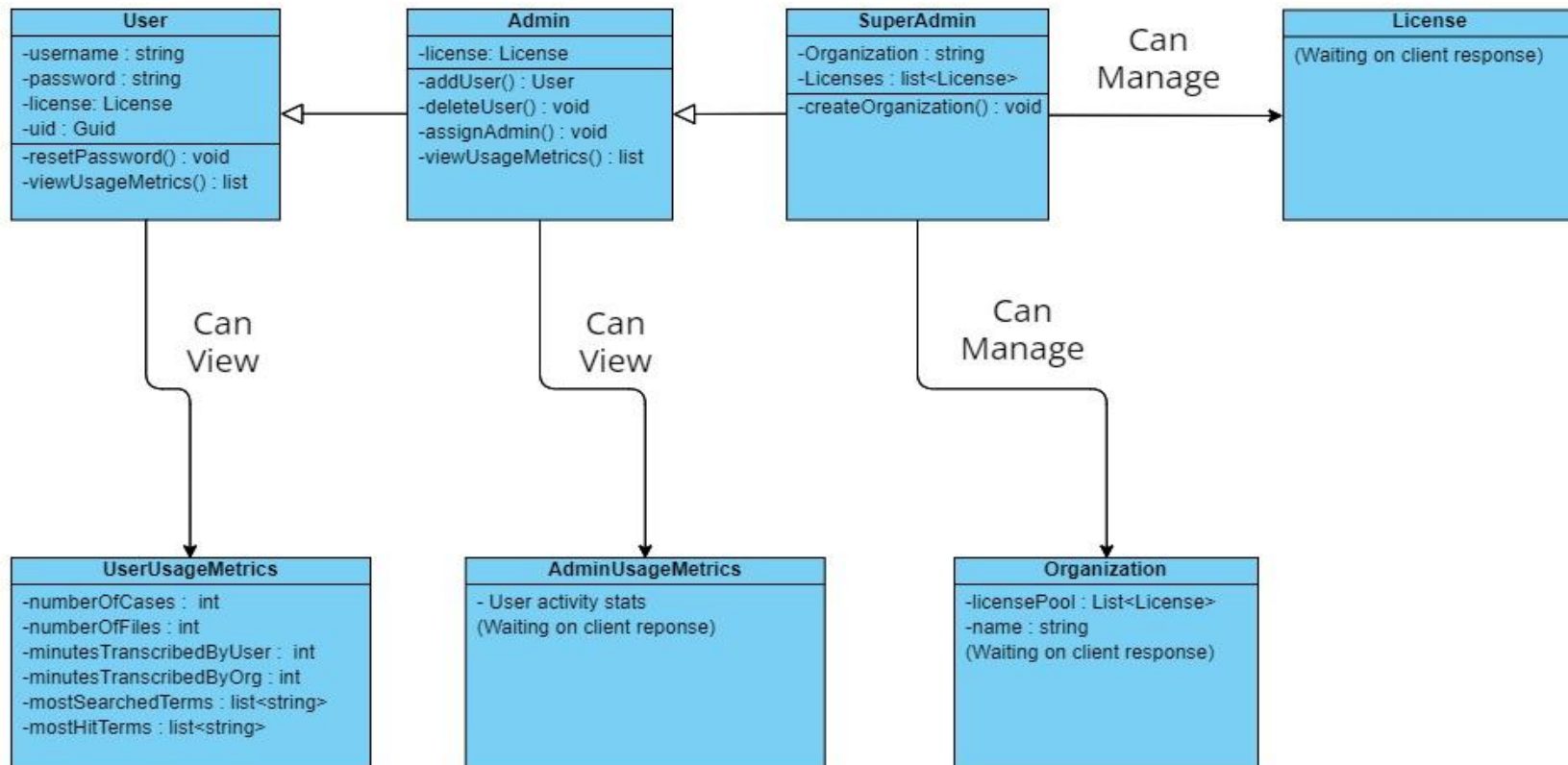
- FR1 - The software shall allow the super admin to log in and be able to manage over the software with unlimited restraints. (HIGH) (BR1)
- FR2 - The software shall allow the super admin to create organizations for subscribed businesses. (HIGH) (BR1)
- FR3 - The software shall allow the super admin to assign admin to the software. (HIGH) (BR2)
- FR4 - The software shall allow admin the ability to add/remove users. (HIGH) (BR3)
- FR5 - The software shall allow the admin to have all privileges of the user. (HIGH) (BR4)
- FR6 - The software shall allow the user to reset their password. (HIGH) (BR5)
- FR7 - The software shall allow the user to view their usage metrics. (MEDIUM) (BR6)
- FR8 - The software usage should include: (MEDIUM) (BR6)
 - Number of cases
 - Number of files
 - Amount of minutes transcribed by user AND organization
 - Most searched terms
 - Most hit terms

Non functional Requirements

- NR1 - The software's design should have simplistic pathing for administrators to perform functions. (HIGH) (BR1)
- NR2 - Administrators may select whether they are adding or removing a user. (High) (BR3)
 - When adding a user, their role can be assigned at their creation.
 - Super administrators shall be able to remove both administrators and users.
 - However, administrators may only remove users, never super administrators or other administrators.
- NR3 - The user login page shall require verification in order to change or reset a password. (HIGH) (BR5)
- NR4 - The software shall be available as both a desktop, and a mobile page. (LOW) (BR6)
- NR5 - The software should have a response time of 1 second or less. (MEDIUM) (BR6)
- NR6 - Usage statistics shall automatically be updated upon their usage. (HIGH) (BR6)
- NR7 - The software should be available 99% of the time. (HIGH) (BR6)
- NR8 - Users may only view items within the organization(s) they are in. (HIGH) (BR6)
- NR9 - Pages should be stylistically consistent. (MEDIUM) (BR6)

Domain Model

Visual Paradigm Online Free Edition



Tech Stack

Front end

Angular Typescript: Ionic <https://ionicframework.com/docs/angular/overview>

Back end

PostgreSQL <https://www.postgresql.org/>

Node JS <https://nodejs.org/en/>

All Tech Stack selections were given by client based off of what they are already using or Tech Stacks they've used in the past

Prototype

<https://youtu.be/n9q30oAd4vs>

First Iteration Features

- Super Admin features are priority for 1st iteration
- FR1 - The software shall allow the super admin to log in and be able to manage over the software with unlimited restraints.
- FR2 - The software shall allow the super admin to create organizations for subscribed businesses.
- FR3 - The software shall allow the super admin to assign admin to the software.

Mentor Feedback

- Reviewed BRs and advised us to split one into two BRs
- Pointed out that not all actors were correctly included in UCs
- Change priority levels for requirements
- Pointed us in the right direction for architecture
- Our tech stack was wrong so he pointed out a fix for that
- Gave us prototype suggestions

Client Feedback

- Client was unable to meet this week for design meeting so we showed him what we had
- Client was open to reviewing and giving us suggestions
- Gave us more a few details for class diagram
- Client is giving us freedom for UI, so far our prototype looks good
- Gave us more details on architecture (Cognito, AWS, Node.js, DB, etc)

Interesting Slide

