# **Final Project Technical Implementation Plan**

# **Group Members**

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# **Project Description**

**RentSIT** is a rental platform for Stevens students. This site allows property owners to post properties near Stevens for SIT students. Students can quickly browse all the properties and contact the owners.

### • Core features

- Users can browse all the properties
- Users can quickly filter properties
- A dashboard for users to manage their Watchlist
- A dashboard for owners to manage their properties.
- Property profile
  - Title
  - Description
  - Type
  - Price
  - Date
  - Album
- User profile
  - Name
  - Avatar
- o A login/signup system
- Owners can add new properties
- Owners can manage their listed properties

## **Course Technologies**

### Nextjs

• Next. js is a server-side rendering React framework. We will use nextjs to support server side rendering. This is good for SEO and load time of the webpage.

#### React

• We will use React as our single-page web application framework. We will create components for the elements that we include on our pages.

#### Redis

• Redis will be used to cache data and html to improve user experience. We will use it to cache the most recent viewed properties.

## **Independent Technologies**

# • ImageMagick

ImageMagick is a library that is used for manipulating images. We will use
ImageMagick to edit the profile images and property photos that they upload to the site

### • Lightbox2

 Lightbox is a simple script used to overlay images on top of the current page. It's a snap to setup and works on all modern browsers. We use lightbox2 to show the property's photos.

### • Express-rate-limit

 Express-rate-limit is a basic rate-limiting middleware for Express. We use it to limit repeated requests to public APIs and/or endpoints such as password reset.
We use express-rate-limit to prevent the brute force attack.

### Github Repo

https://github.com/Hughli3/CS554 Fincal Project