
Team NVC



Engineering Gallery

Team NVC:

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Problem Statement

- Passionate engineers need a place to showcase their work
 - Both personal and professional projects
 - How can we connect the engineers of the world through their similarities and differences?
 - How can we benefit the engineering community through this platform?
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Product Objective

- Allow engineers to showcase their talent
- Act as a professional portfolio for users to reference
- Serve as a means of inspiration for users viewing content
- Bring creative and clever implementations/creations to the spotlight in a visual manner



Main Features

- Public and private posts showcasing engineering projects
 - Images
 - Text
- Easy way of feedback for projects
 - Comments section



Main Features (continued)

- Customizable user accounts with easy to share URL
 - Profile picture
 - Profile description
 - Contact information
 - Standardized tags to categorize projects for easy searching
 - Checkbox engineering field upon creation
-

MVC Architecture

Model

- Model to take and store data from users like login details, profile details
- Model to process data/projects posted in the form of images, videos, text, audio
- Model for commenting on posts and being able to like/share posts
- Model for tagging posts, making them subject specific, etc.

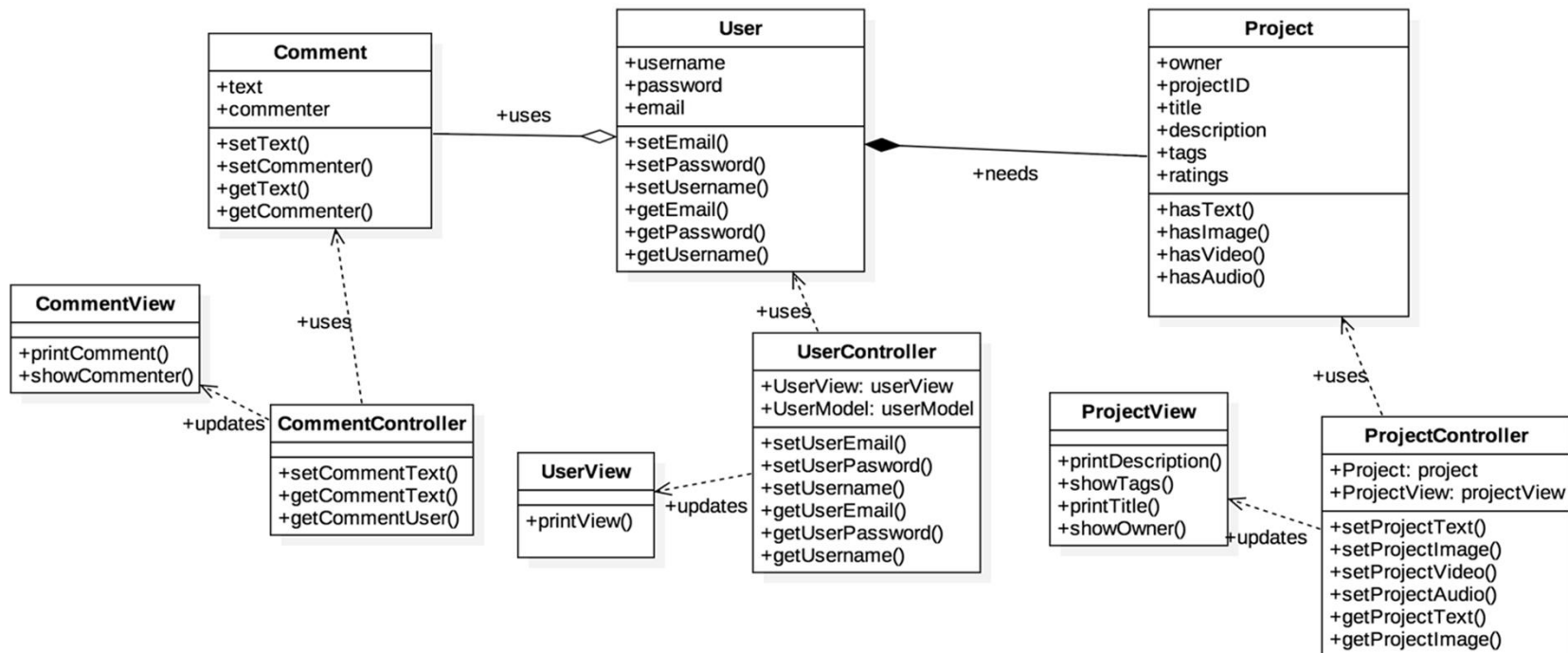
View

- View that displays homepage; page with a form to create an account or login
- View that displays user profile, etc.
- View that allows for posting, title of post, description of post, and any attachments of the post
- View to see other users posts in a news-feed like page, make comments

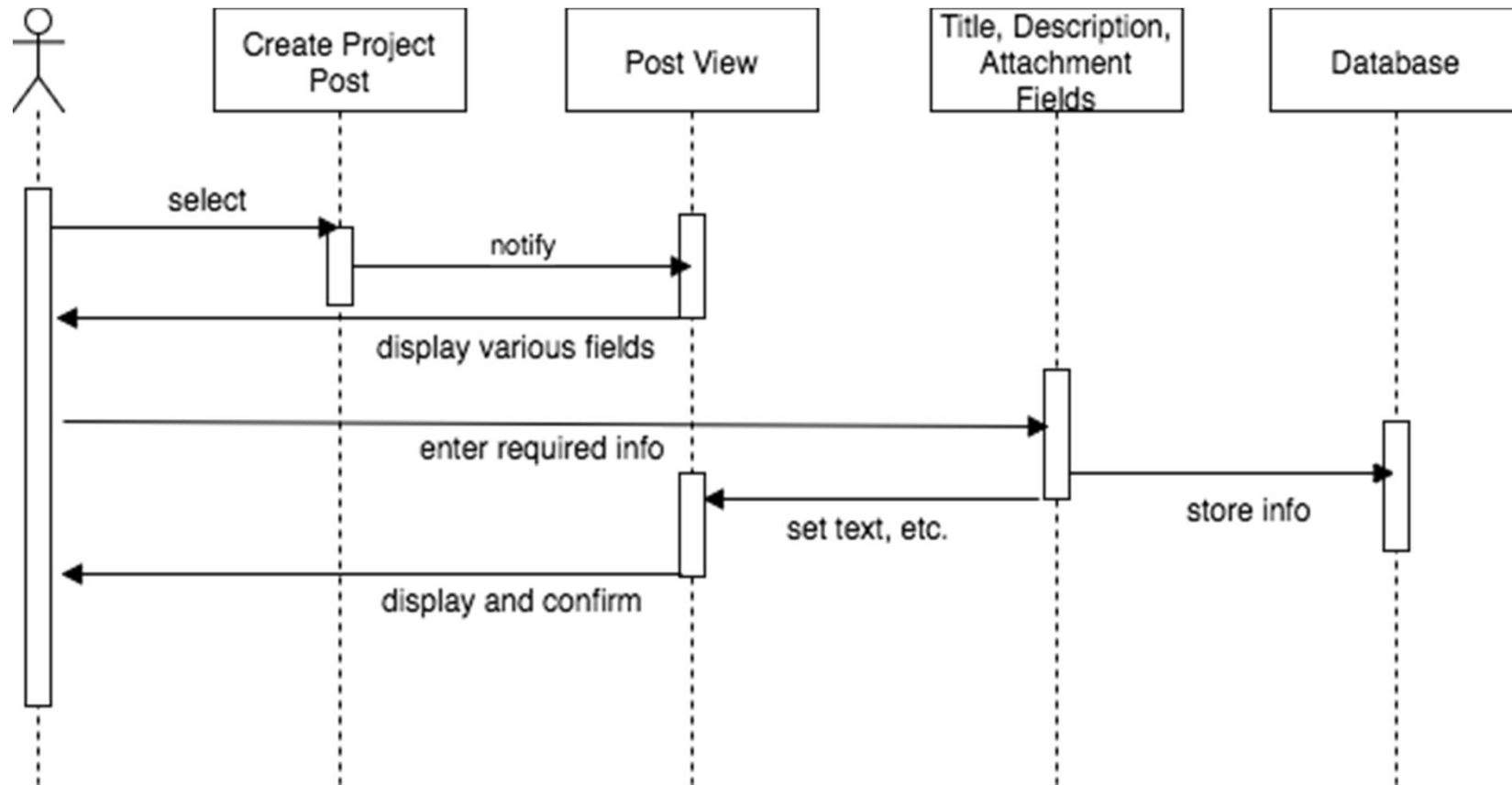
Controller

- Controller to help output user data to the view after it has been posted
 - Controller to help log the user in after they enter their details
 - Controller to publish posts and sort by tag
-

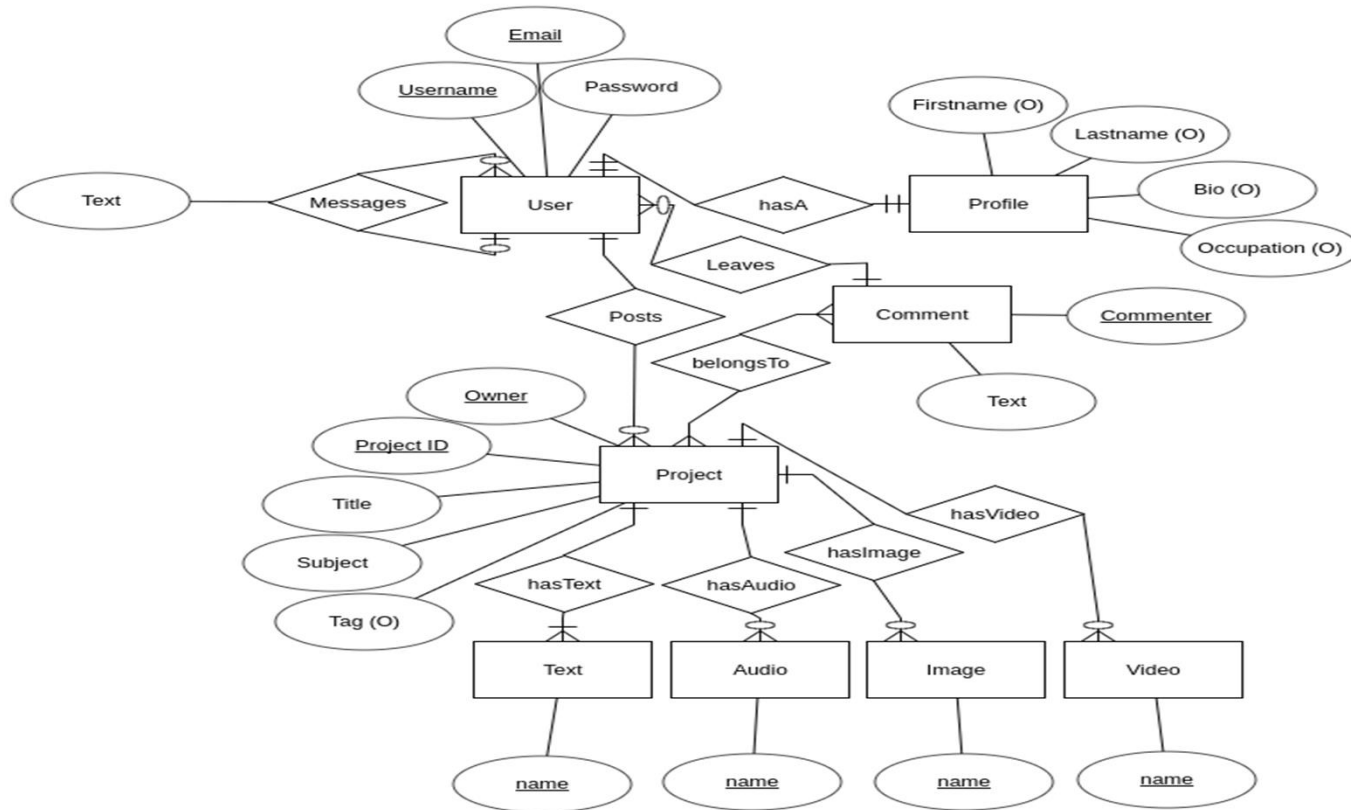
UML Class Diagram



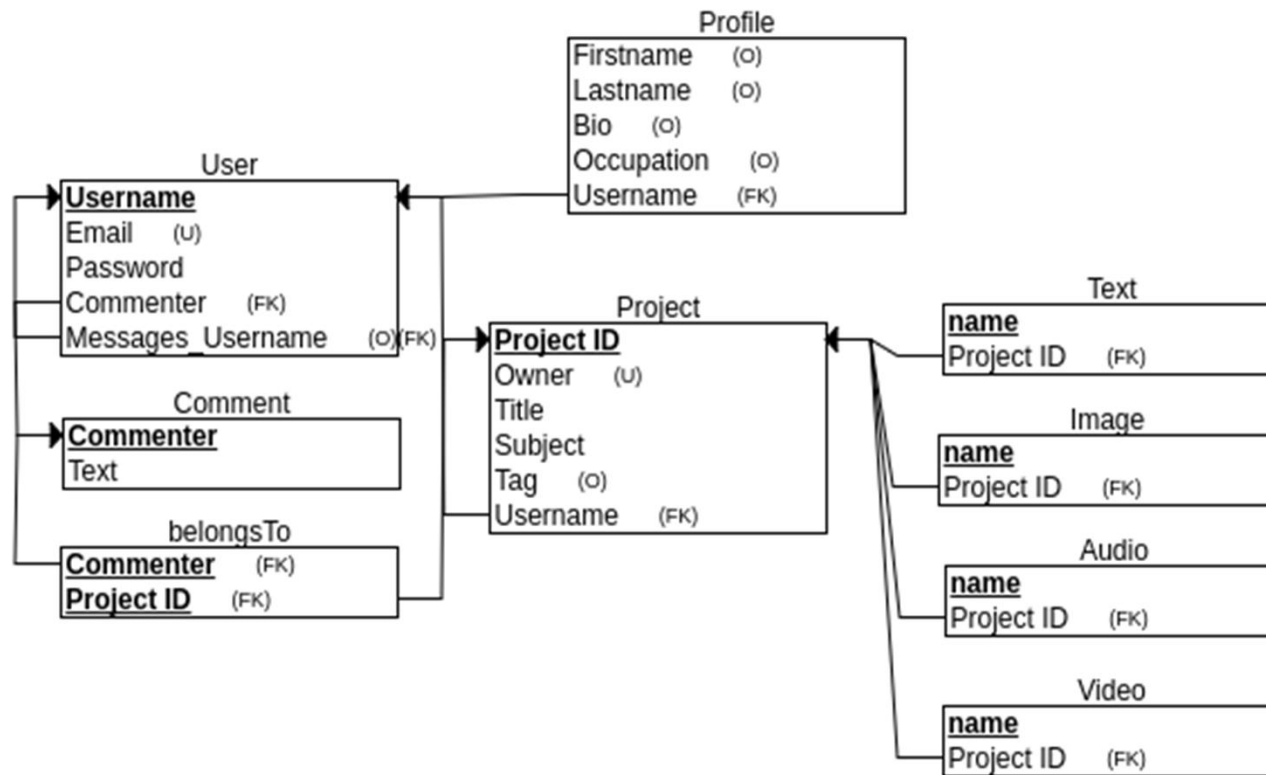
UML Sequence Diagram



Entity Relationship Diagram (ER)



Relational Schema



Project Demo

See Appendix for screenshots




Postmortem

- Functions that we wanted to implement but couldn't include
 - Private messaging between users
 - Post privacy, hiding posts
 - Issues we ran into
 - Version control issues
 - Active Records with relations
 - Using PostgreSQL to deploy to Heroku
 - Ruby in general
-

Appendix -- Screenshots

Home About Create Index Contact Us Help Sign Out Edit

Engineering Gallery



Welcome Home!

Engineering Gallery -- A place to catalog and share your hard work.

News
May 15, 2017 -- There is a chance we might present today

Recent Projects

Title	Owner	
My Motion Detector	3	Show
SRE Racecar	2	Show
Contactor Panel	1	Show
Bluetooth Speaker	1	Show

Appendix -- Screenshots

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Project Title: My Motion Detector

Project Description:
I constructed a motion detector for CmpE 110. I used PIR motion sensors to send a digital signal to an Arudino UNO. Based on the received data from the sensors, the connected piezo buzzer will play a sound.

Attachment:



Comments:

Commenter	Comment
thedude@email.com	Hope you like my project
theguy@email.com	Nice Post!

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Questions?

