



Introduction

- Sheepdog Defense Group is a local Fort Worth self-defense company that is fully licensed by the State of Texas Private Securities Bureau to provide self-defense and weapons training to help other protect their communities.
- Their main goal is to provide training to church groups and private schools to help them from becoming targets for acts of violence.
- Sheepdog Defense Group also offers self-defense and weapons training to the public so that they can protect themselves and their families.

Problems and Solutions

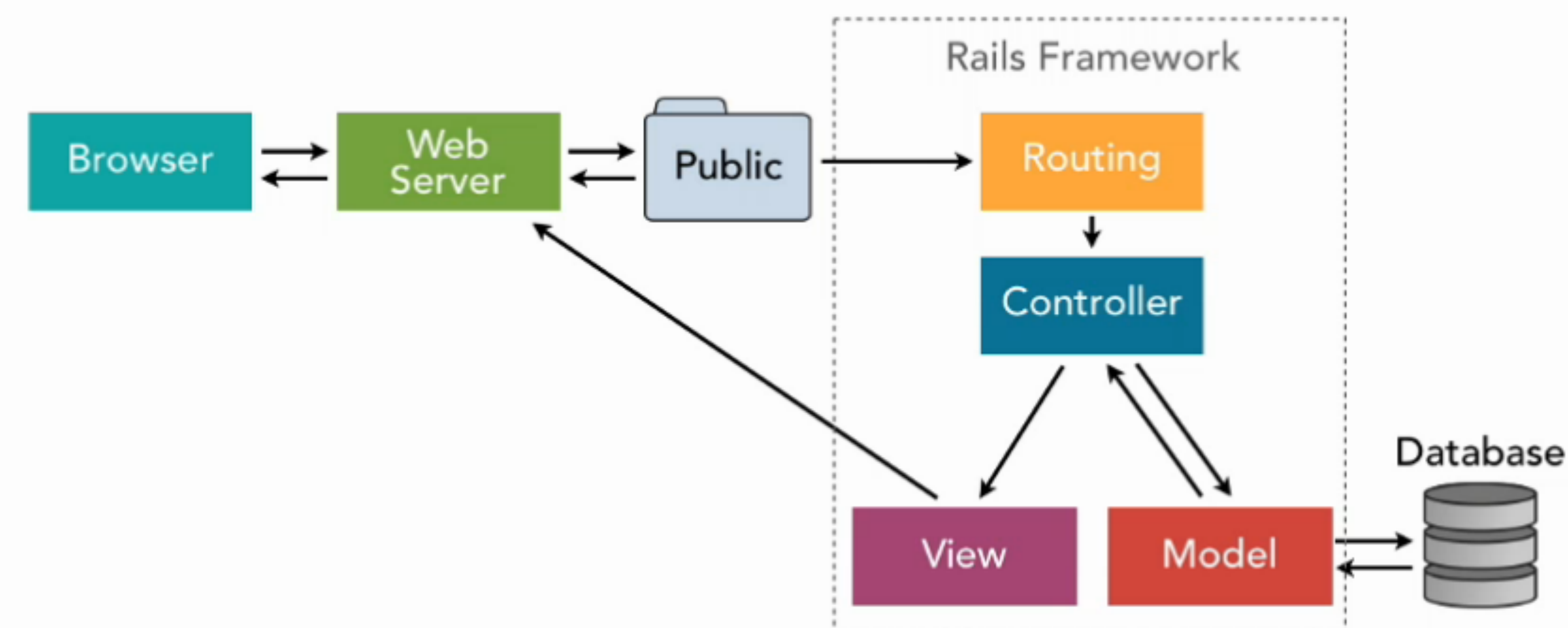
- Our client has been depending on sticky notes and emails to track class sign-ups, consultation, and purchases.
- He also maintains hard copies of all guard files
- Our solution would allow for customers to:
 - Sign-up for any class on the schedule
 - Submit a consultation request
 - Purchase merchandise from online store
- Our solution would allow an admin to:
 - See a roster for every class offered
 - See a list of any consultation requests
 - See a record of all store purchases
- Our solution also allows for:
 - Guards to maintain profile
 - Admin to upload New Hire Documents
 - Admin Approve Gun License Changes
 - Churches Upload Documents

Technologies

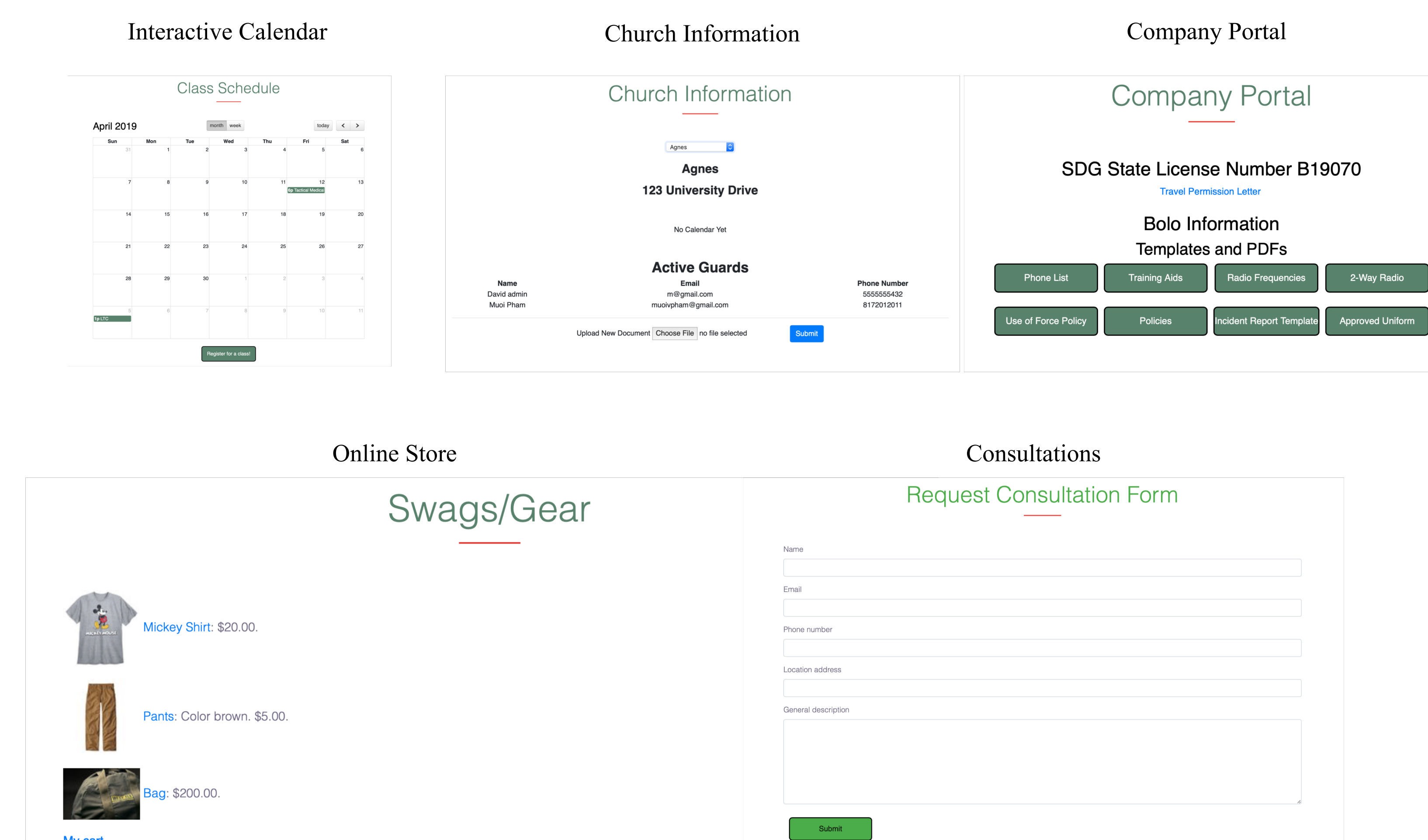
- Framework – Ruby on Rails
 - Database – PostgreSQL
 - File Hosting – Amazon S3
 - Deployment – Heroku
 - Stripe – Payment System
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Rails Architecture

Rails architecture



Main Features



System Architecture

Not depicted in the flowchart:

- Our rails framework is hosted on a Heroku Dyno
- Our controllers also interact with two different products that are not within our application
 - Amazon S3 Bucket – this is used to store the files that will be uploaded by the guards, admins, and churches
 - Stripe Payment – For both the customer class sign-up and the online store, we use Strip Payment as our payment option to accept credit and debit cards

Conclusions

- The site and it's features are currently being rigorously tested
- The SDG site allows customers to perform a range of actions such as signing up for a range of self-defense courses, purchase multiple items in an online store, and request consults
- The SDG site allows for guards to login to their accounts to keep track of their personal information, view security plans and information about protected Churches, and view company wide documents and BOLO's
- The SDG site allows for admins to keep track of all requested consults, class signups, purchased merchandise, and manage guard profiles
- After testing, the site will be fully deployed on Heroku and connected to SDG's current domain

Acknowledgements

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- We would also like to thank Dr. Wei for his input and guidance throughout the development process.

References

- Stripe - <https://stripe.com/docs>
- Heroku - <https://devcenter.heroku.com/categories/reference>
- Amazon S3 - https://docs.aws.amazon.com/s3/index.html#lang/en_us
- Ruby on Rails - https://guides.rubyonrails.org/api_documentation_guidelines.html