

# Team 3

Zhaozhong Qi

AJ Turner

Maggie Macfadyen

Shane Clegg

# Overview

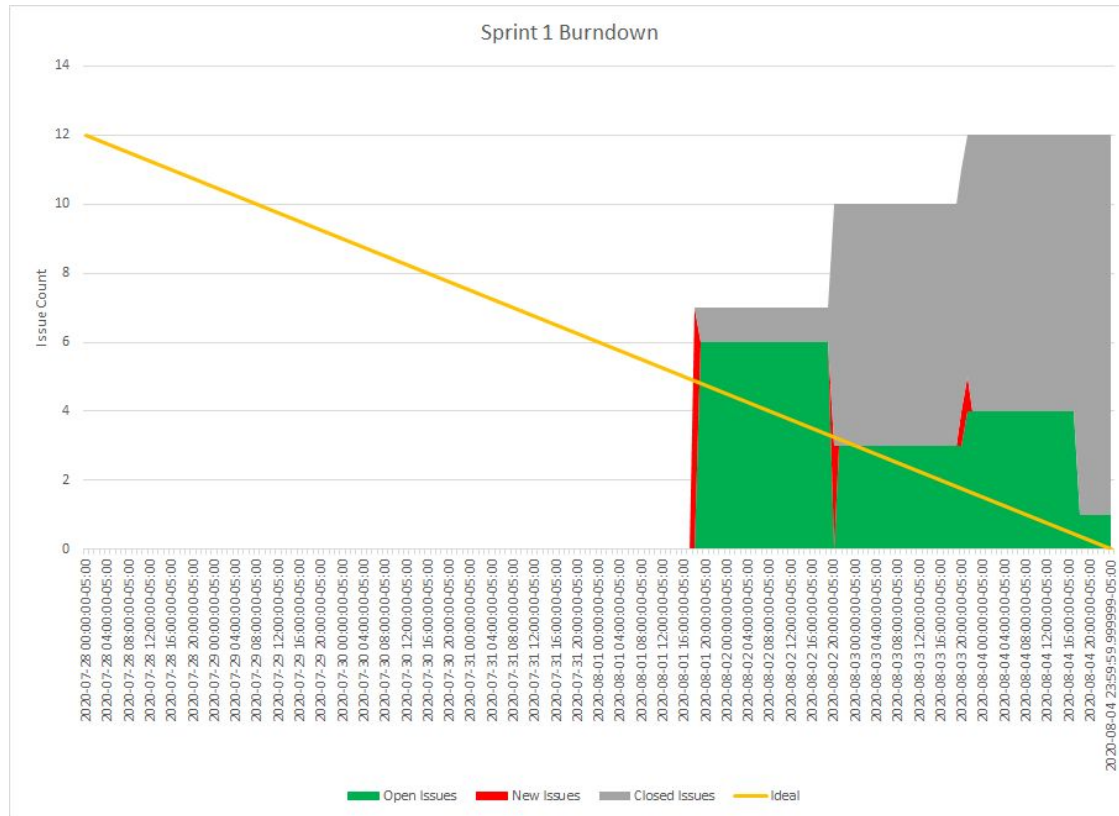
- Project Overview
- Design
- Implementation
- Demonstration
- Reflection

# Project Description

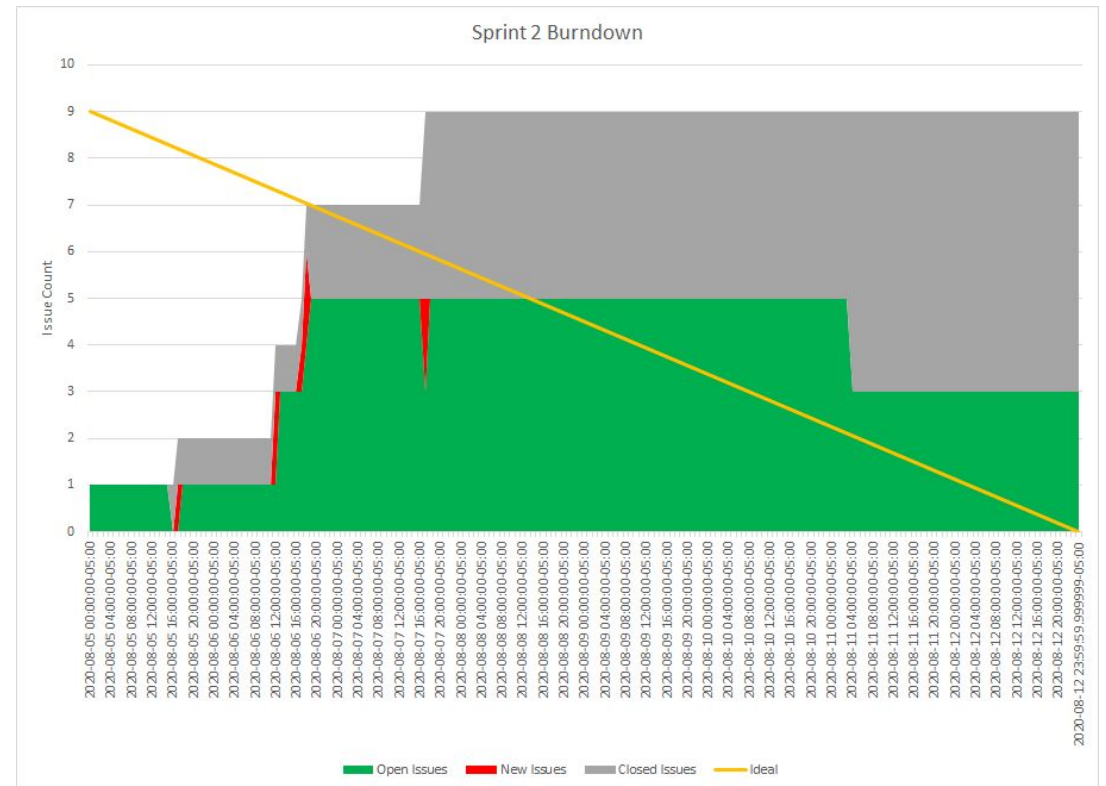
- Voting System for the city of Pacopolis
- Covers elections and issues, including races for positions and propositions
- Two types of people: Voters and Election Officials
- Voters and Election Officials can create accounts corresponding to their roles
- Election Officials can create ballots, and Voters can vote on the ballots that are created by the Election Officials
- All users can view election results at any time

# Burndown Charts

## Sprint 1



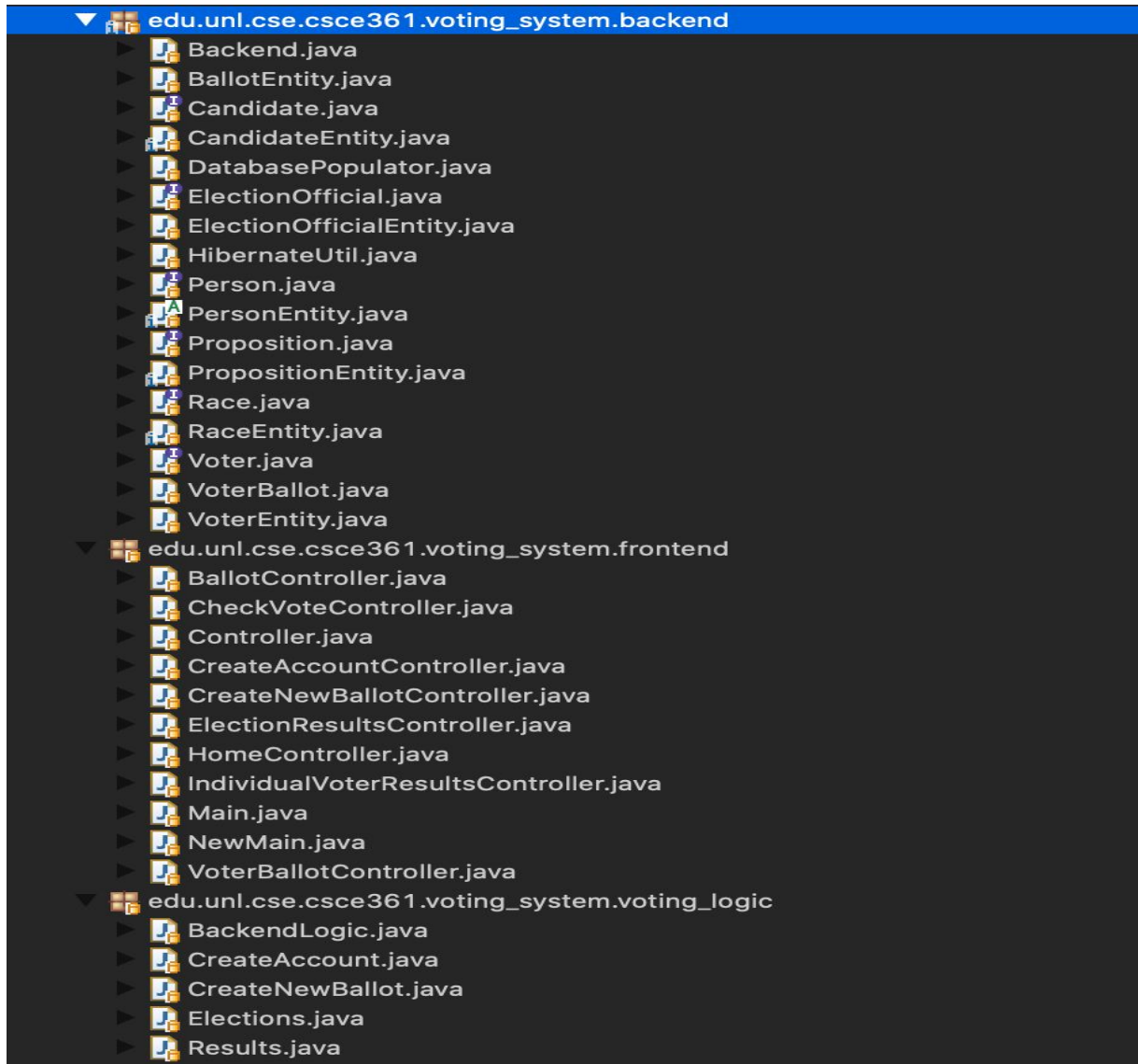
## Sprint 2



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# Subsystem Decomposition

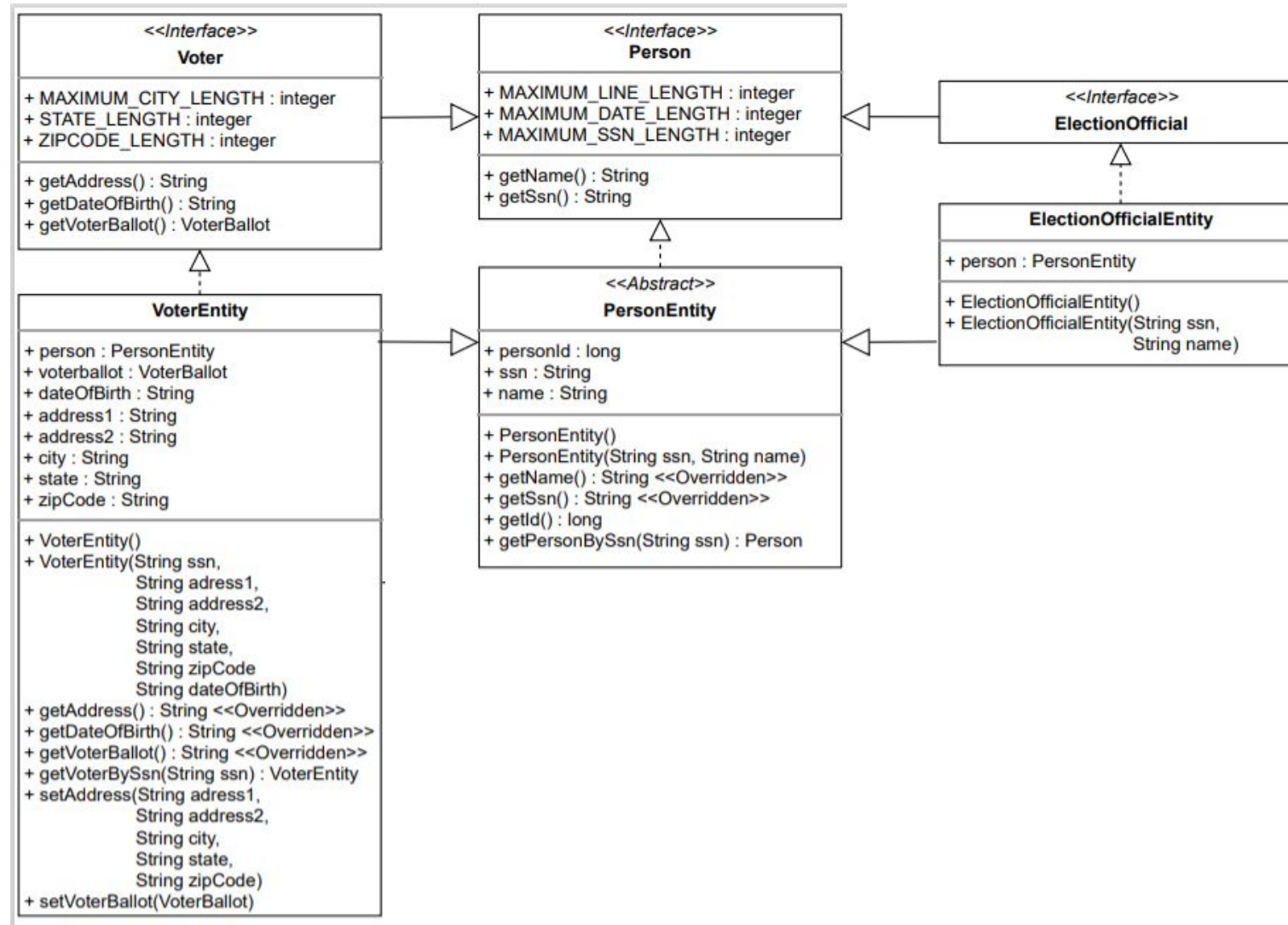


Three Tier  
Architecture

# Other Architectural Issues

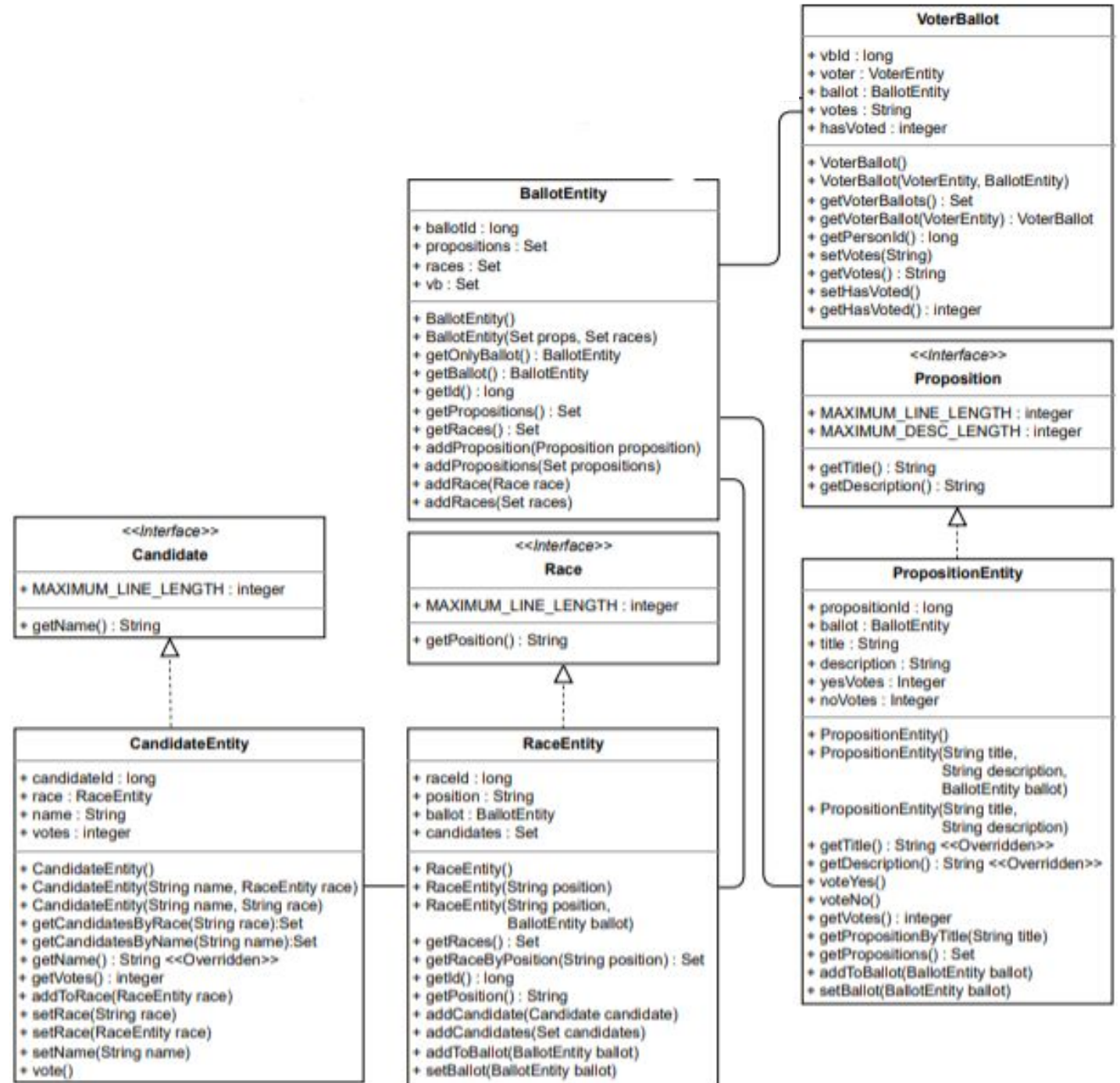
- Storing a voter's ballot selections in the database
- Deciding if a candidate on a ballot should be a person

# Class Diagram: Person Subsystem





# Class Diagram: Ballot Subsystem



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- Project Overview
- Design
- **Implementation**
- Demonstration
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# Implementation

- Libraries / Dependencies:
- (other interesting info)
- Progress:

# Overview

- Project Overview
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- **Demonstration**
- Reflection

# Demo

Voting system

## City of Pacopolis Online Voting

First Name

Last Name

Social Security Number

Login

Register

View Election Results

Voting system

## City of Pacopolis Online Voting

First Name

Last Name

Social Security Number

Street Address 1

Street Address 2

City

State

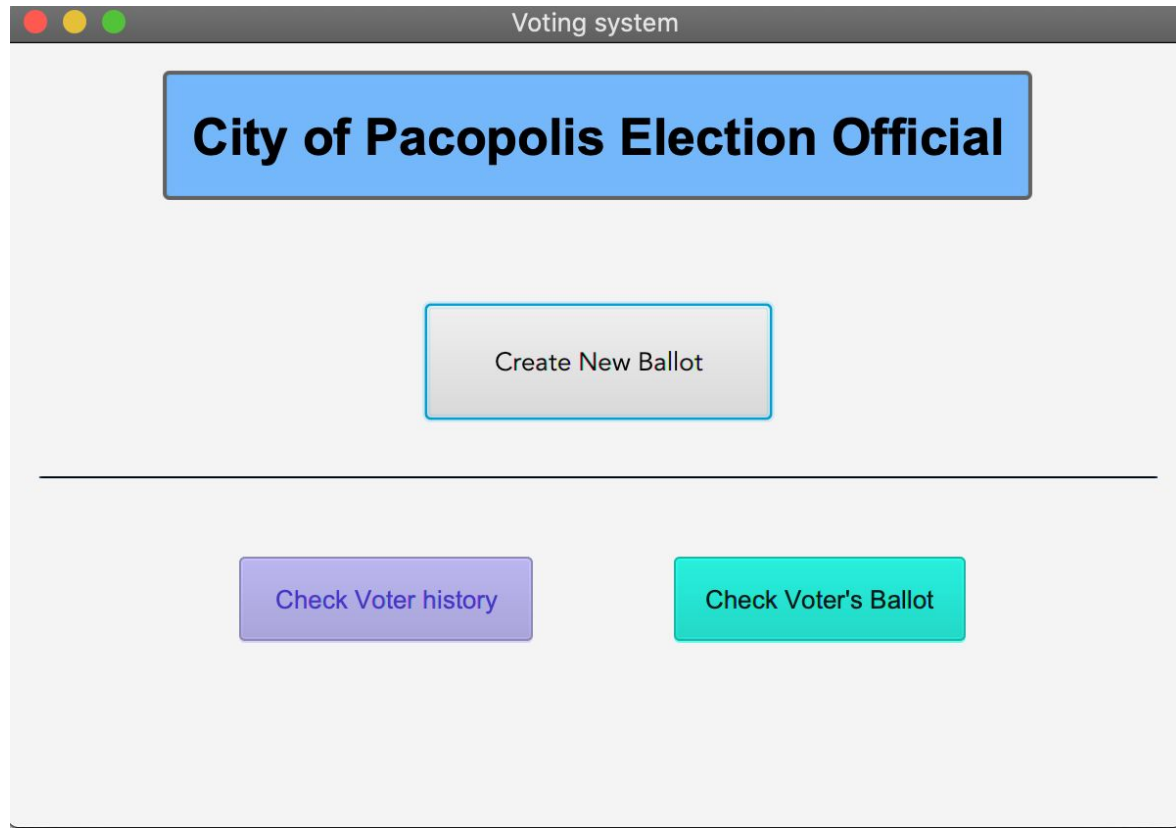
ZIP Code

Date of Birth

Register Election Official

Register Voter

# Demo



# Overview

- Project Overview
- Design
- Implementation
- Demonstration
- **Reflection**

# Reflection

## What went well

- Using hibernate for the backend and JavaFX for the frontend went smoothly as we were familiar with both softwares
- Peer programming using screen-sharing was useful for brainstorming ideas and debugging code
- Backend objects were created first which made implementing the frontend and logic layers much easier



# Reflection

## What didn't go well

- Committing code and merge requests didn't always go well, a good deal of code was committed to branches higher than it should have been, including non-working code, which in turn made merge requests messy
- Fixing merge conflicts. In the end we had to manually compare files to fix the merge conflicts in some cases
- Connecting the Person subsystem and Ballot subsystem was difficult

# Reflection

## Lessons Learned

- Committing files directly to a branch that needs to be merged into is bad practice because it creates merge conflicts which can be difficult to resolve
- Tools like Git Extensions can be very useful for resolving merge conflicts when configured properly
- A clear class diagram is useful in creating one-to-many and one-to-one relationships, especially when dealing with a large number of objects