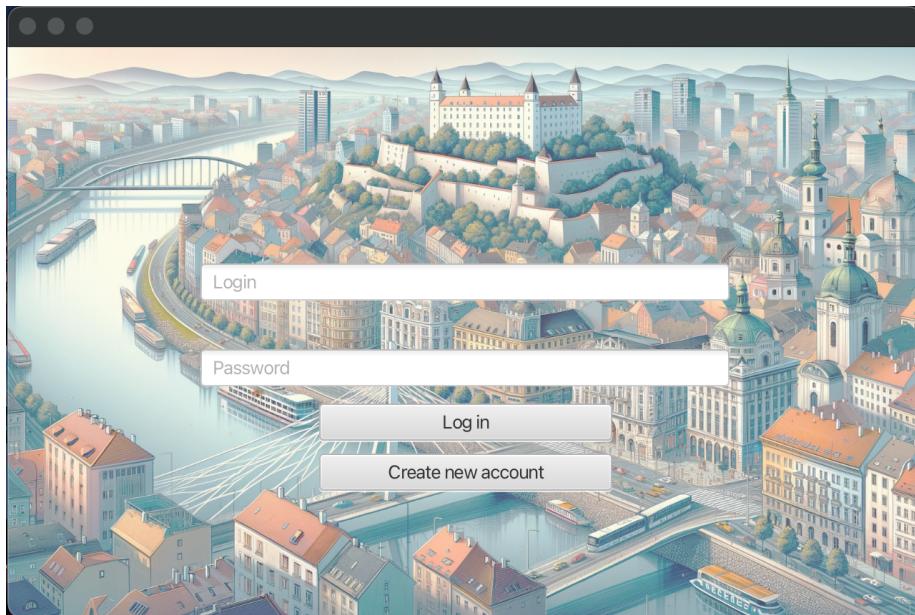# Urban Voting System

Timofei Kuzin
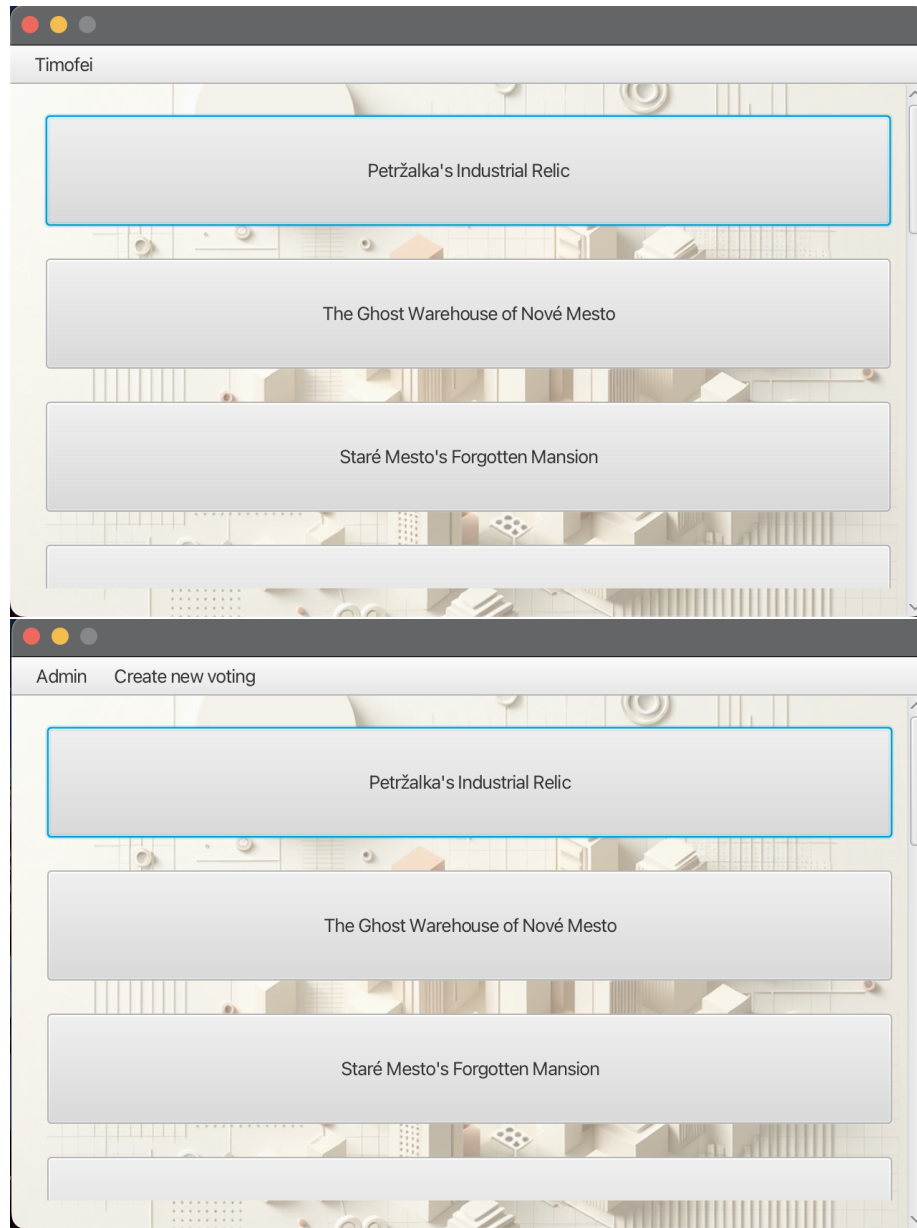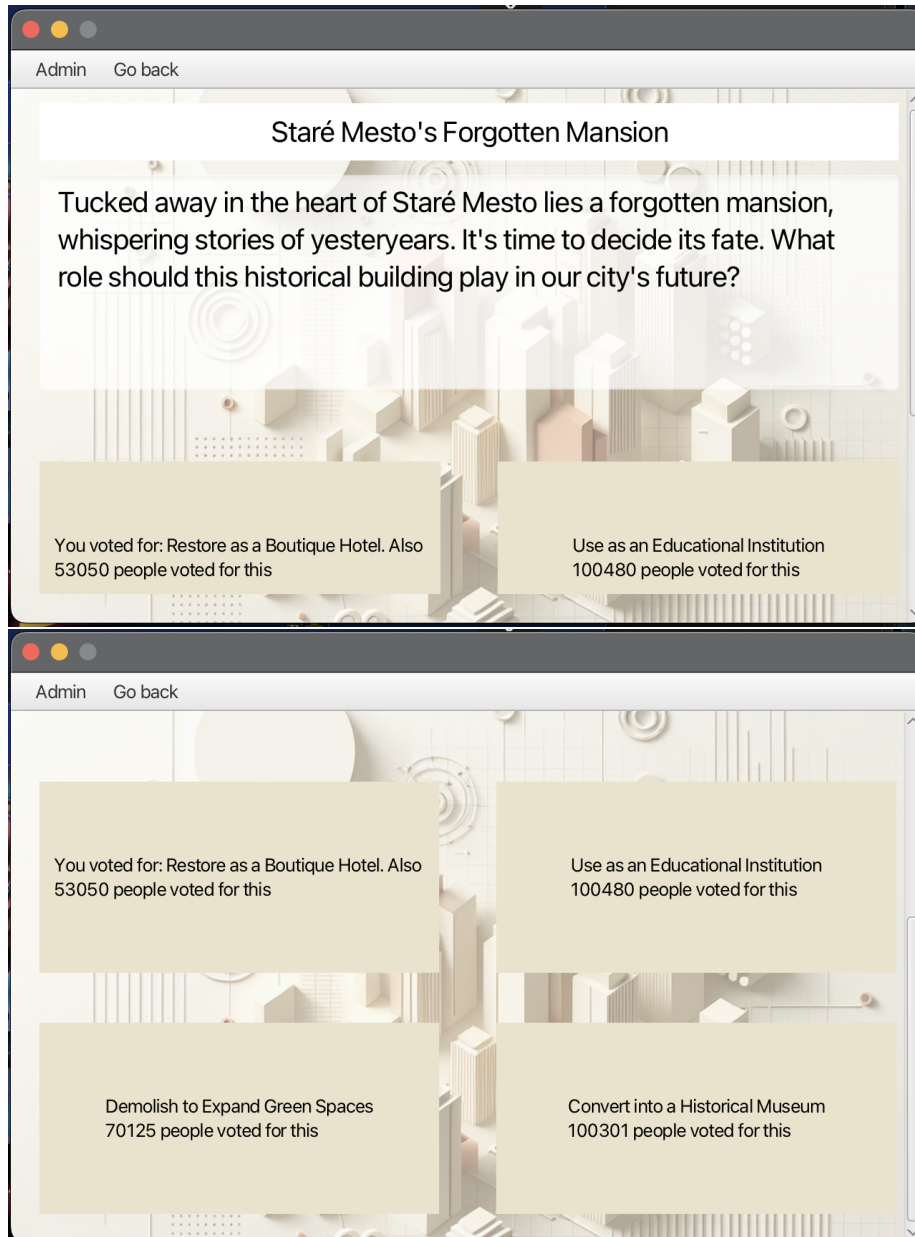
April 2024

1   Login window

Here you can create a new account or login with already existing once. If you want to login as admin please use 'Admin' as login and 'qwerty123' as password. If you want to login as regular user please create a new account with the button or use 'Timofei' as a login and 'timka123' as a password.

2   Menu window

Here you can vote for some already existing projects or if you want you can make your own if you are an admin by the button in the menu bar.
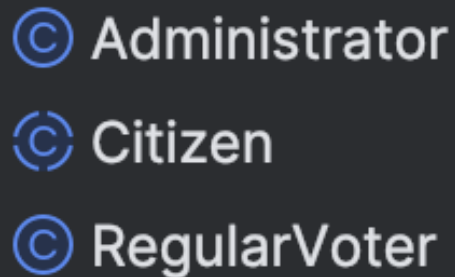
3 Voting

In voting, you can click on options and see how many people also voted for them, but if you then go to the menu and then back to this voting, you will see a text that says that you have already voted and on the third click on this vote from the menu, voting will be ended. And there will be text that says "Voting ended". Also, you can always log out from the system by just clicking on your

username in the left top side of the window.

4   Code

```
@Override
public void performAction() { SceneManager.getInstance().setSetVisibility(true); }
//polymorphism that is used in strategy pattern to show admin button
```


In classes RegularVoter and Admin, you will find polymorphism and also an implementation of the strategy pattern and inheritance. Also, in the MenuWindow class, you will find an aggregation.

```
3 usages
List<Card> votingCards = new ArrayList<>(); //aggregation. Menuwindow have
 Тимофей Кузин +1
@FXML
private void initialize() {
    votingCards = Card.getCards(); //putting in aggregated list objects
    getVotings();
}
```