



# E-voting system for Ireland

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— **CS3500 Software Engineering**

## Team L

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**PBI 1. Security**

As a voter I want my personal details to be kept secret so that I can vote anonymously. **13**

Task 1.1  
Integrate  
Protocols  
7 hours

Task 1.2  
Create  
hiding  
information  
function  
8 hours

Task 1.3  
Design a secure  
database  
7 hours

Task 1.4  
Automate  
Tests  
8 hours

Task 1.5  
Test  
3 hours

**PBI 2:Login**

As a user I do not want that anybody votes in my name so I want the system to check my identity. **13**

Task 2.1  
Create login  
Function  
6 hours

Task 2.2  
Design  
the database  
4 hours

Task 2.3  
Code the UI  
5 hours

Task 2.4  
Automate  
Tests  
8 hours

Task 2.5  
Test  
3 hours

### PBI 3:Results

As a user I want to see the results at each moment of the election so that I can be informed. 5

Task 3.1  
Create a  
counting  
function  
4 hours

Task 3.2  
Code the UI  
2 hours

Task 3.3  
Automate  
Tests  
4 hours

Task 3.4  
Test  
1 hour

### PBI 4:Email

As a government I want to notify users through an email subsystem so that I can communicate directly with them. 8

Task 4.1  
Integrate  
an email  
application  
7 hours

Task 4.2  
Code the UI  
4 hours

Task 4.3  
Automate  
tests  
7 hours

Task 4.4  
Test  
3 hours

#### PBI 5:Availability

As a user I want an available and reliable system so that I can be able to vote at anytime. 8

Task 5.1  
Create  
failover  
solutions  
7 hours

Task 5.2  
Automate  
Tests  
7 hours

Task 5.3  
Test  
3 hours

#### PBI 6:Speedy

As a user I want the system to respond fast so that I do not spend so much time in the voting process. 5

Task 6.1  
Multithreading  
(parallelizing)  
8 hours

Task 6.2  
Automated  
performance  
tests  
5 hours

Task 6.3  
Test  
2 hours

#### PBI 7:Installer

As an administrator I want an executable file which will install the system so that I can manage easily the functionality of the system. 3

Task 7.1  
Create  
installation  
package  
2 hours

Task 7.2  
Automate  
tests  
3 hours

Task 7.3  
Test  
1 hour

#### PBI 8:Cheaper System

As a government I want the system to be cheap so that I can save money and use it in other domains. 8

Task 8.1  
Energy  
efficient  
4 hours

Task 8.2  
Reusability  
8 hours

#### PBI 9:Change the vote

As a user I want to be able to change my vote in case I regret my previous election or I am confused by selecting. 2

Task 9.1  
Create  
function  
change option  
4 hours

Task 9.2  
Code the UI  
2 hours

Task 9.3  
Automate  
tests  
2 hours

Task 9.4  
Test  
1 hour

### PBI 10:Tutorials

As a voter I want to see tutorials about how the system works so I can learn how to use it. 5

Task 10.1  
Create  
video  
tutorials  
6 hours

Task 10.2  
Code the  
UI  
2 hours

Task 10.3  
Test  
2 hours

# Contributions

We distributed the workload equally among the team members.