SE491
Lightning Talk
Jack-o-Lantern
Spirits in the Gardens
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- Unit Testing
- Interface Testing
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Unit Testing

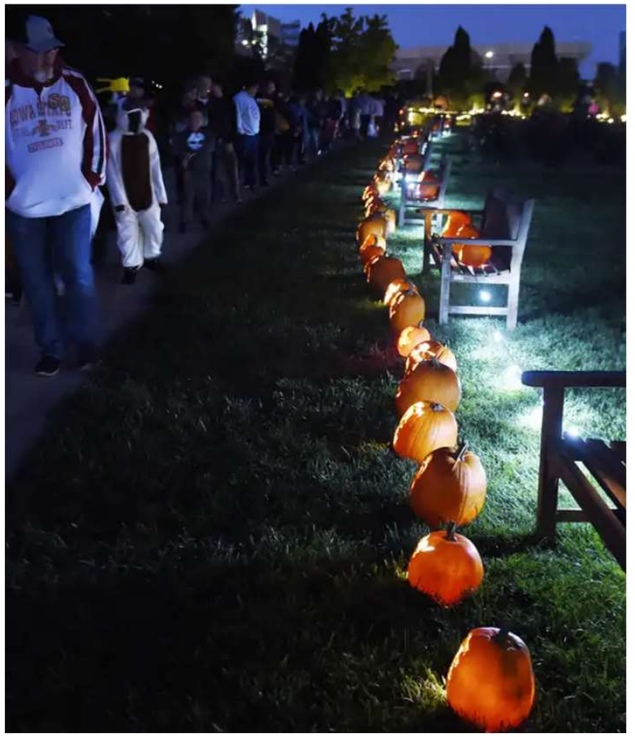
- Testing units will include each component in our app.
- Including:
  - Pumpkin component on the volunteer side
  - Stencil entry on the admin side.
- Testing the image classification accuracy.
- Tools: TensorFlow, Jest.

Interface Testing

- Testing each API endpoint for their existence and intended responses to input.
- Test each endpoint as they are created.
- Run at the start of each deployment in development and production.
- Tools: Jest.

Integration Testing

- Two critical integration paths:
  - Data between the main components are consistent.
  - The AI stencil recognition is acceptable.
- Tools: Selenium, TensorFlow.



System Testing

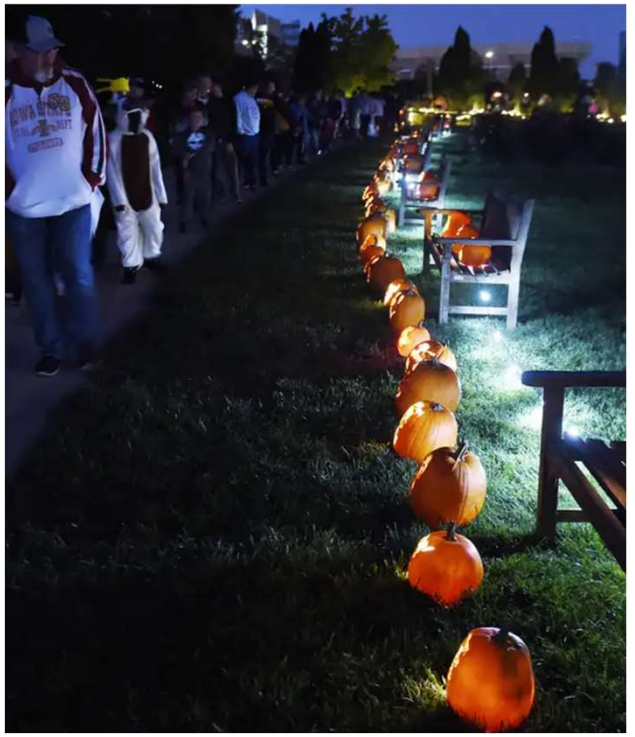
- Strategy:
  - Updating and maintenance of the stencils by the admins.
  - Preparation for the upcoming events.
  - Searching for and changing the pumpkin status.
  - Viewing the update submission logs and approving the status.
- Tools: React Testing Library, Jest, and Selenium.

Regression Testing

- Re-execute the test cases.
- Add any additional cases to cover the new functionalities.
- Automated through CI/CD pipeline on Gitlab.
- Tools: Jest.

Acceptance Testing

- Will be done bi-weekly with our client.
- Putting our app into production and deep testing the process and workflow start to finish.
- A trial run of the event will occur.
- Our team will be available on site to solve any problems that arise.



Frightful and Delightful,
it's a
big
thank you!