Amy Crandell
Texas Legislative Council – IS Division

Agile and Other Development Methodologies
Development Methodology of
The Texas Legislative Council
North Star Applications Team

• Combination of Agile, Kanban, and team experience
• What follows is the Quality Assurance Practices for our latest project.
Specifications Workshop

Who: Development team

Description:

• Project Leader or QA creates the story. Sometimes the technical lead writes the story.

• Acceptance criteria usually documented in G/W/T. A mockup will be included as a guide.

• The team discusses the acceptance criteria to ascertain it is complete and understood before development begins.
Specifications Workshop

Description (continued):

• Developers review the acceptance criteria and add questions/comments before the workshop in order to make the discussion more productive.
• Test scenarios are discussed and spec updates as needed
• If shared components are to be changed, discuss and document so it can be tested.
• Determine level of automated testing
• Decompose large stories as needed.
Manual Developer Testing

**When:** During development

**Who:** Developers

**Description:**
- Verifies that code works as specified for all test scenarios
- Run the application and verify before merging to dev branch
Automated Unit Testing

**When:** During development

**Who:** Developers

**Description:**

- Create automated unit tests for front end code
- Unit tests should run automatically when merging to Dev branches.
- Helps promote quality in the code being built.
Developer QA

**When**: After development

**Who**: A developer on the same team who did not implement the story, according to agreed upon documented standards.

**Description**:

- Review acceptance criteria and test scenarios.
- Review code and verify that it follows the established standards.
- Execute unit tests and ensure sufficient coverage.
- After deploying to Dev, test again **all supported devices** and web browsers.
Acceptance Testing

**When:** After development and Dev. QA Testing

**Who:** Quality Assurance Analysts (QAs)

**Description:**

- Test scenarios manually on all supported devices and web browsers, including Citrix.
- Inform the other team's QA that story is ready for cross-team acceptance.
- Do some exploratory testing.
- Consider documenting testing steps in story.
Production Quality (PQ) Testing

**When**: At the end of each milestone

**Who**: All members of the development team, plus outside teams

**Description**:

- Test feature(s) manually on all supported devices and web browsers
- Verify usability while testing real client workflows
- Perform exploratory testing
Performance & Load Testing

**When**: At the end of the project

**Who**: Developers, DBAs, other infrastructure support staff

**Description**:
- Verifies responsiveness based on an expected number of simultaneous users.
- Validates the correctness of the response
Retrospectives

**When:** After each milestone and PQ testing, or as needed

**Who:** Entire development team

**Description:**

- Discuss what is working well and what needs improvements. Tweak processes, as needed.