Bringing Stakeholders Together Through Modeling

Evan Masters

PNSQC 2021
About the presenter

- Located in Spokane, WA
- Been in SQA with Critical Logic since 2010
- Began as SQA Analyst, specializing in MBT
- Customer Success Manager & Product Owner
- BS Physics, MBA, CSM, SAFe certified
- Adjunct professor of Business Ethics
What am I going to talk about?

1. Models and why their good (when they’re good)
2. Types of models
3. What we can do with models
4. Even more we can do with models
#PNSQC2021  Bringing Stakeholder Together Through Modeling
80%!
Are all specs bad?

Thursday, October 14th, 2021
• Behavioral (Dynamic)

• Structural (Static)
My Personal Favorite
Ambiguity
1. The system shall…
2. The system shall also…
3. The system shall not…
4. Oh, and also this thing that we forgot until we saw it in the model!
2019 MBT User Survey
Bringing Stakeholder Together Through Modeling
Model

DatabaseManager
GUIManagerController
DownloadController
ReportController
UploadController
ExportController
SearchController
Category
File

Diagram

DownloadController

ExportController

ReportController

UploadController

SearchController

Category

File

Diagram Elements:

- DatabaseManager
- GUIManagerController
- DownloadController
- ReportController
- UploadController
- ExportController
- SearchController
- Category
- File

Diagram Connections:

- DatabaseManager to GUIManagerController
- GUIManagerController to DownloadController
- ReportController to DownloadController
- UploadController to SearchController
- ExportController to SearchController

Diagram Details:

- DatabaseManager:
  - addFile(): void
  - read(): File

- GUIManagerController:
  - diagrams: ArrayList<Category>
  - display(): void

- ReportController:
  - DownloadReport(): String

- UploadController:
  - addFile(name: String, category: Category): String

- ExportController:
  - deleteSelf(): String

- SearchController:
  - search(): ArrayList<File>

- Category:
  - name: String
  - data: ArrayList<File>
  - data: Date
  - data: Date
  - category: String
  - print(): void

- File:
  - name: String
  - data: Uploaded: Date
  - data: Uploaded: Date
  - data: Uploaded: String
  - data: Uploaded: Date
  - category: String
  - print(): void
Verify the **Balance for the Account on the My Account screen** matches the latest **Statement balance**.
Start Demo App (DemoApp3.exeC:\Demos)  
Verify the current window is "Login"

Set "Account ID" to ""

Clear Account ID

Set "Password" to ""

Clear Password

Click on "Login" (Left)

Verify the Message: 'Account ID is required' is displayed on the Login screen

Set "Account ID" to "XXX"

Click on "Login" (Left)

Verify the Message: 'Account ID is invalid' is displayed on the Login screen

Set "Account ID" to "Bob"

Click on "Login" (Left)

Verify the Message: 'Password is required' is displayed on the Login screen

Set "Password" to "XXX"

Click on "Login" (Left)

Verify the Message: 'Password is invalid' is displayed on the Login screen
Conclusion

• There are tons of types of models
• No one sets out to write a bad spec
• Modeling brings stakeholders together
• You can do a LOT with models
Prefer use of Calibri font, with body font size being no smaller than 18.