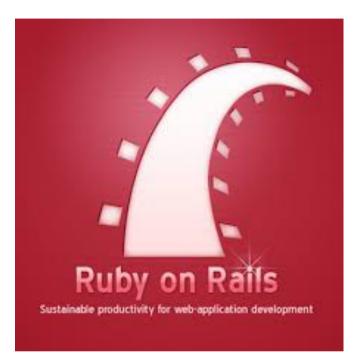
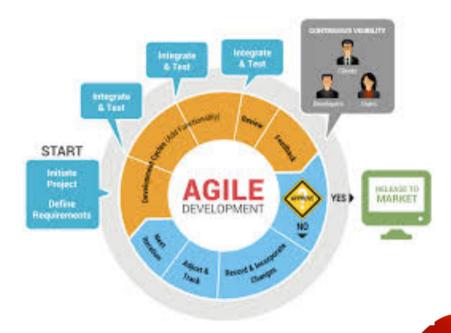
COMPUTER + MATHEMATICAL SCIENCES





Week 4: Intro to Agile SDM and Rails

409232 Software Development Methods

Jim Buchan



Quizz







Today's Goals

- Clarity on Assignments 2
- Overview of Agile and tool support





Assignment 2

- Sprint 0 weeks 3,4,5
- Sprint 1 weeks 6,7
- Sprint 2 weeks 8,9
- Sprint 3 weeks 10,11
- Delivery week 12
- 6 Teams of 6-8 members
 - Analyst x 1, testers x 2, coders x 2, scrum master x 1
 - 2 competing streams of 3 teams developing different versions of the app.
 - 1 team input of information
 - 1 team querying information
 - 1 team workflow and administration

The Product: SERLER

Software Engineering Research Lab Evidence Repository

- Aim
- Workflow
- Getting information in to the repository
- External users using the repository
 - view/browse
 - rate
 - search
- Administering the repository





How get into teams

- Teams of 5-6
- Multi functional
 - analyst
 - testers
 - developers
 - scrum master





Assignment 2

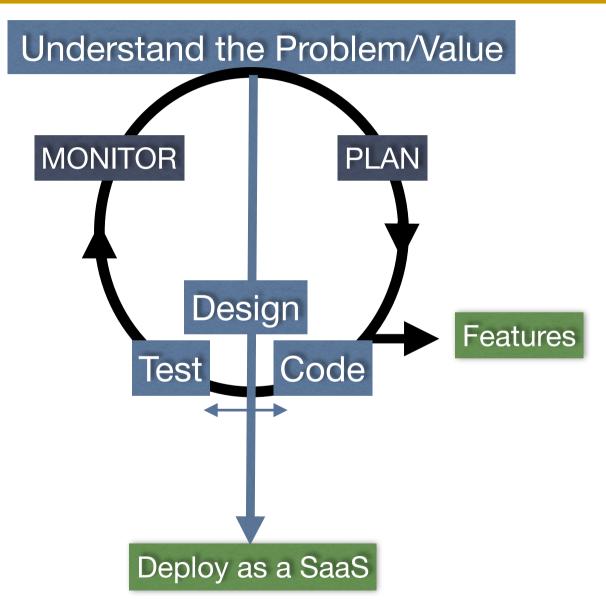
Organizational

- 1 Put the customer at the center.
- 2 Let the team self-organize.
- 3 Work at a sustainable pace.
- 4 Develop minimal software:
 - 4.1 Produce minimal functionality.
 - 4.2 Produce only the product requested.
 - 4.3 Develop only code and tests.
- 5 Accept change.

Technical

- 6 Develop iteratively:
 - 6.1 Produce frequent working iterations.
 - 6.2 Freeze requirements during iterations.
- 7 Treat tests as a key resource:
 - 7.1 Do not start any new development until all tests pass.
 - 7.2 Test first.
- 8 Express requirements through scenarios.

Collaboratively developing an Application

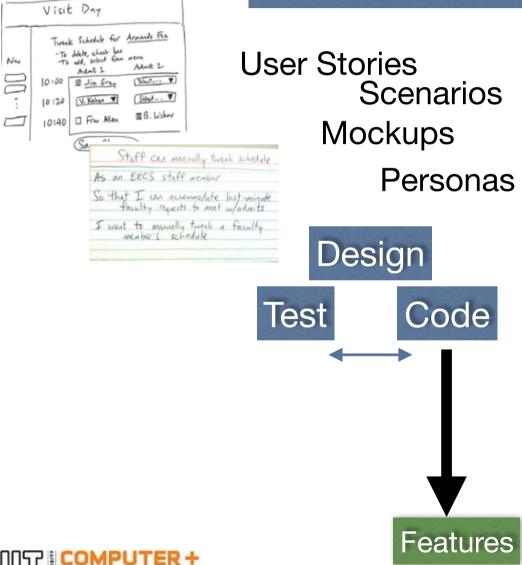


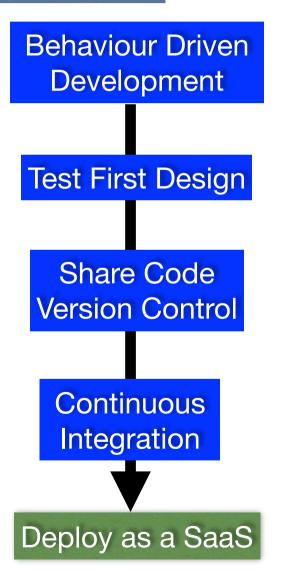




Collaboratively developing an Application

Understand the Problem/Value







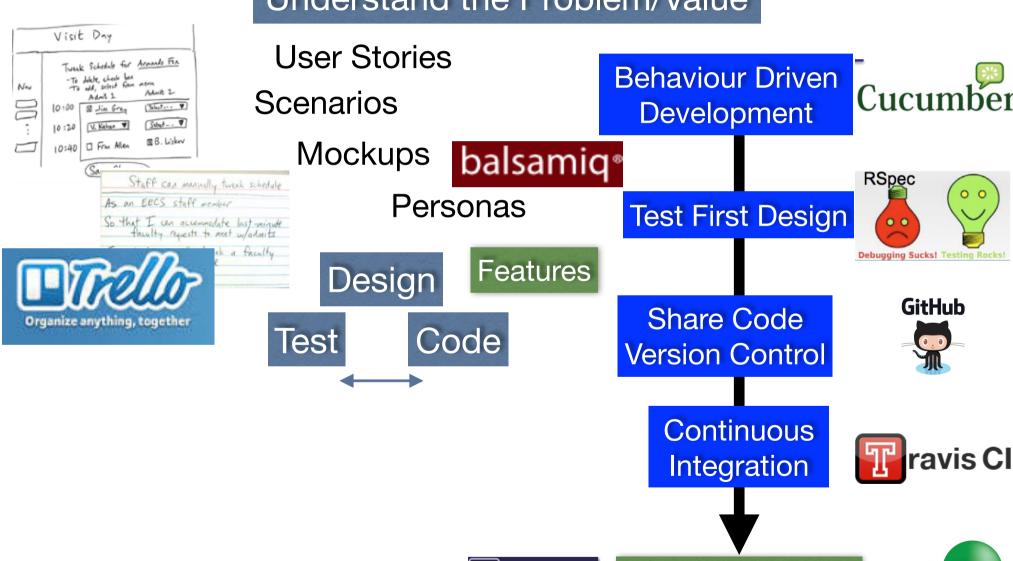
Collaboratively developing an Application

SERI

Software Engineering Research Laboratory

Deploy as a SaaS

Understand the Problem/Value



In Sprint 0 - set up

- Use of Rails, BDD
- Use of RSpec for automated testing
- Use of Travis CI for continuous integration
- Use of Cucumber for acceptance testing
- Use of Bootstrap, Font awesome for look and feel
- Use of GitHub for version control and code sharing
- Use of Heroku for cloud deployment
- Get product backlog manage in Trello
- Sprint planning, release planning





Agile organisational Methods

- Teams/individuals share code within each stream
- Standup meeting every class
- Sprint planning before enclademic credit?
 and estimation!
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Practical exercise 4

 This weeks practical exercise involves understanding the use of the model and controllers to modify the database.

http://wpm4240new.herokuapp.com/movies





For net week

- Read Chapters 4 and 10 of the textbook.
 - This will be the topic of the quiz next week.
 - Marks will be collected for this quiz.
- Look up information on Behaviour Driven
 Development and Cucumber so you
 have an idea of the claimed benefits and
 how cucumber supports BDD.

