# Milestone Three

## Primary Objectives:

1. Go through class project mini Sprint 1: planning meeting, backlog refinement and grooming, construction, review meeting
2. Use Pivotal Tracker for Scrum Agile processes
3. Prove architecture and development workflow for class project
4. Team project inception begins (week 1 of 3)

## Overall Requirements:

- Class Project:
  - Project set up correctly in Pivotal Tracker
  - All Epics/User stories in Pivotal Tracker
  - Commit one user story per person, run 1 mini-iteration (sprint) to
  - Confirm architecture: minimal introductory site deployed on Azure, with database interaction, database deployed on Azure
  - Go through all Scrum meetings
- Team Project Inception (Part 1 of 3). At least:
  - Mindmap or other brainstorming output
  - Vision description
  - Preliminary needs and features lists

Grade sheets (ods)

## Tasks:

1. **Use the project on Pivotal Tracker given to you to coordinate our Scrum activities.** Important things to remember:

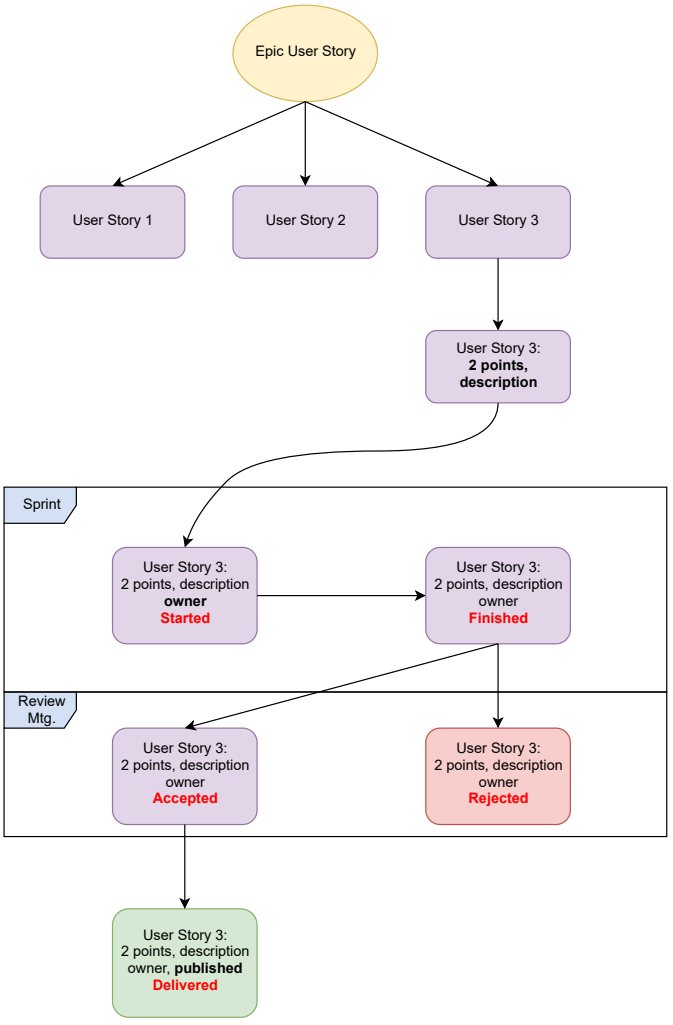
   - Customize the Project Settings before you begin adding stories. Details such as Initial Velcocity and Point Scale to use will be covered in class.
   - Make sure all team members have full access and everyone has uploaded an image or avatar so they're easily identified.
   - Add a project description on the Profile page. Your Git repository will contain a much more complete description of your project, but we want something here too.

2. **Populate your Product Backlog**

   Go over your user stories and epics for the class project that you identified during the inception phase last week. Which ones are really Epics? Or just User Stories? Organize and then enter all of them into a your Pivotal Tracker project. Do the following

   - Everything you currently have (from your initial requirements and modeling phase) should go in Pivotal Tracker.
   - Priority is established by the order items appear; items at the top have the highest priority
   - Use Epics for most stories. Typically every user story is bigger than you think, especially now when everything is new. You only need to break down the highest priority one and only if it or user stories from it might be added to the current iteration.

- Using Tasks is up to you. It is recommended to use tasks early on to get a feel for planning what it will take to finish your user story.
- Descriptions are required for stories in your current iteration. Put in a summary of everything you've discussed about that story; links to modeling artifacts (in your repo); images; drawings, ...
- Assign effort points for the highest priority Backlog/Icebox items. Don't try to estimate epics, only user stories




3. **Sprint 1 Planning: Iteration planning, backlog grooming and refinement**

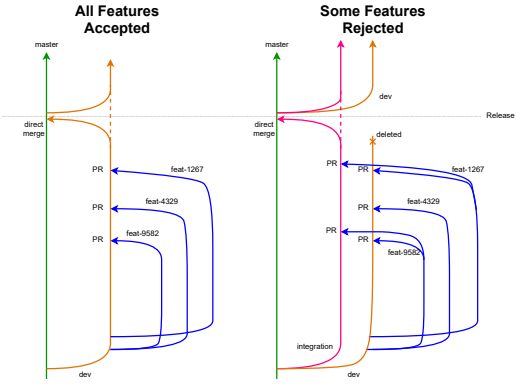
   Try to follow the DAD book's process for Iteration Planning on page 292, Chapter 14. *As a team* you are doing Just-In-Time planning and modeling of a solution for PBI's and tasks to be committed into the Sprint. Hold a Sprint Planning Meeting and groom the class project backlog. At this point this is the Icebox, which should already be in priority order (at least to your current knowledge). Add a single user story to Sprint 1 for each team member and make them an Owner. This is a mini-iteration used for practice and will have the purpose of setting up a relatively simple version of the class project.

   Since this is just a simple version you may need to be a little creative with your user stories for this one. We don't want the construction to be difficult or time consuming on this one. No real features yet. That's OK. The purpose of this is to run through the process. Next week we'll do some real features. You may want to additionally break things down into Tasks, which don't have to be written in user story format. For this first Sprint try to keep things simple so that each user story has only one owner. The owner is responsible for that story.

   Make sure the instructor or your project advisor goes over your Sprint 1 backlog before you start working to check it over and make sure it is correct.

4. **Sprint 1 Construction**

   Run through this Sprint and create a very simple initial version of the application, deployed on Azure and having some database interaction. The database should be deployed on Azure. Make sure you go through the whole process on Pivotal Tracker and conclude the Sprint. Every team member must manage their own user story in Pivotal Tracker; don't ever modify user stories if you're not the owner of it. When you are finished with it, and it's tested and working, mark it as Finished. It will only be Accepted and Delivered after your Sprint Review meeting and after it is merged into master. There's a state diagram image (at right) to help explain our workflow.




   Create new feature branches off dev for all work and submit them using pull requests (PR) using our Git workflow. The repository owner/maintainer only merges dev into master after the Sprint Review meeting and only for stories that were accepted. (We'll go over this workflow and the one for when

certain PR's aren't accepted -- see figure at right.) The maintainer can move stories to Delivered at this point. You should have a separate testing site deployed off dev that you can put up and take down at any time. Leave your main site deployed all the time (the one deployed off master).

5. **Team Project (1 of 3 weeks)**

   Select one of your ideas and go with it (assuming it's approved by your advisor). This will be the first pass at an Inception phase. Spend quality time with your group going through the first parts of Inception. You want to determine a really good overall vision for your project. Follow the roadmap from the class project. First create a Mindmap or other brainstorming diagrams that outline what you think your project will entail. Then write an initial description of your project vision. Then move on to a preliminary list of Needs and Features and possibly some requirements. Keep all these in your official team repo in plain text files (i.e. Markdown files are good) when possible. Be prepared to discuss the details of your work with your Advisor. In fact, give a little pitch of your idea and the details. There will be questions!