Software Development

Project 1

Module 05



What is a project?

Project: Any undertaking, carried out individually or collaboratively and possibly involving research or design, that is carefully planned (usually by a project team) to achieve a particular aim.

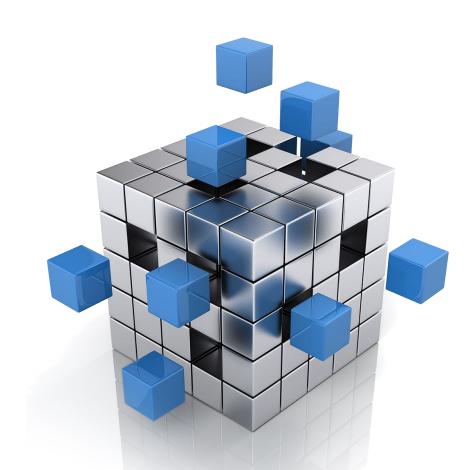


How do we carefully plan a project?

Project Management

The practice of initiating, planning, executing, controlling, and closing the <u>work</u> of a <u>team</u> to achieve specific goals and meet specific success criteria at the specified time.

The primary challenge of project management is to achieve all of the project goals within the given constraints.

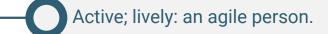




What is the definition of agile?

agile [aj-uhl, -ahyl]





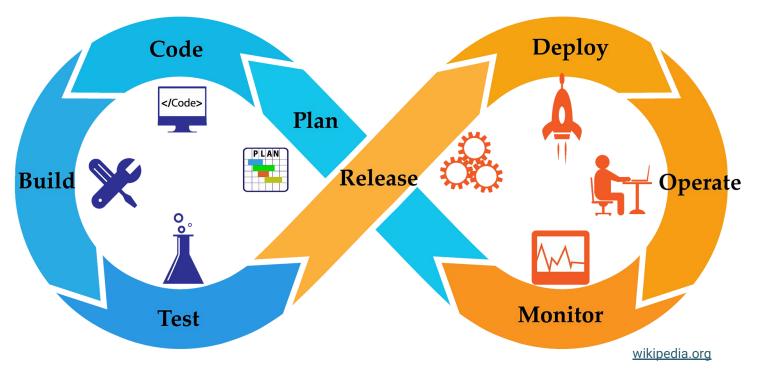
Marked by an ability to think quickly; mentally acute or aware: She's 95 and still very agile.



What is agile **software development**?

Agile Software Development

Agile software development is an iterative approach to **software development**.



Agile Software Development

Deliver Value

Teams deliver value to their customers faster by working incrementally rather than working towards a big launch.

Respond to Change

Teams improve and respond to change by continuously evaluating project plans, requirements and user needs



What is **iterative development**?

Iterative and Incremental Development

Working software is the primary measure of progress

The Agile Manifesto: The Four Foundational Values

Individuals and interactions	over	Processes and tools
Working product	over	Comprehensive documentation
Customer collaboration	over	Contract negotiation
Responding to change	over	Following a plan



What is an MVP?

Minimum Viable Product

A product with just enough features to satisfy early customers and provide feedback for future product development

Minimum Viable Product:



Product Vision:





How do we determine our **MVP**?

Determining a Minimum Viable Product

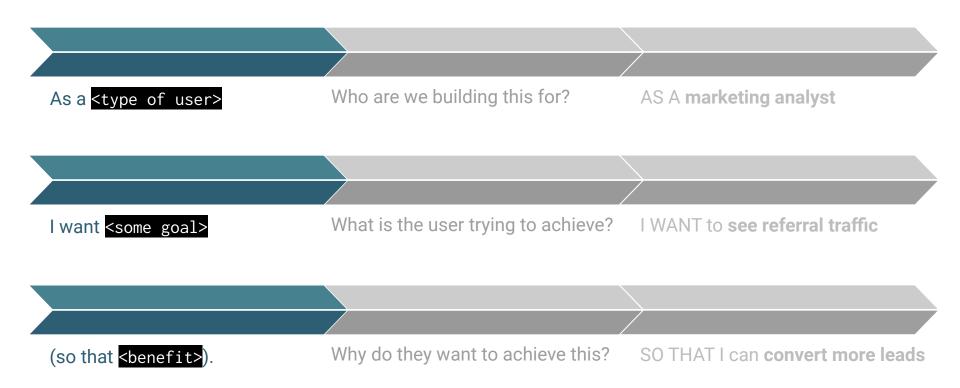
Ask Questions!





What is a **user story**?

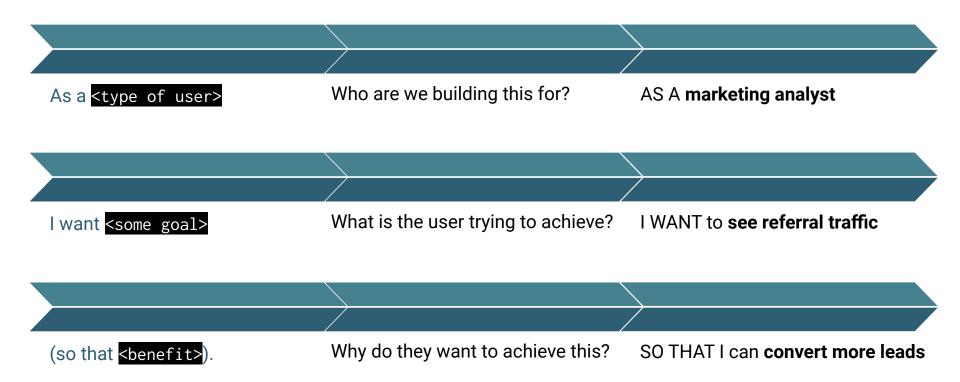
User stories



User stories



User stories





What is acceptance criteria?

Acceptance Criteria

GIVEN some precondition

GIVEN I am an authenticated user

WHEN I do some action

WHEN I request a range of referral traffic

THEN I expect some result

THEN a chart is generated

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Instructor **Demonstration**

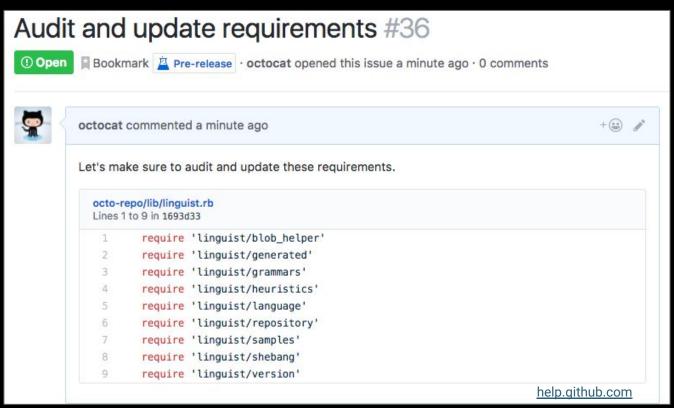
Git Repo Setup



What is an Issue?

Issues

Use issues to track ideas, enhancements, tasks, or bugs for work on GitHub.





Instructor **Demonstration**

GitHub Issues



In a markdown file or with a pen and piece of paper, create a user story for a mock persona using one of the following prompts:

- 1. A web application that keeps track of a company's payroll.
- 2. A mobile application that finds nearby restaurants.
- 3. A reminder app that keeps track of important tasks

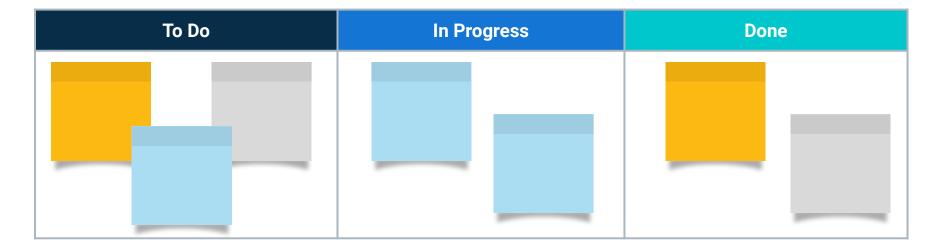




What is **kanban**?

Kanban

Kanban is a project management tool that visualizes work through cards representing User Stories or Issues. In their simplest form, Kanban boards are broken into three columns:



Cards begin in the To Do column and are moved from left to right as work is started and completed.



Instructor **Demonstration**

GitHub Projects



What is daily scrum?

Stand-Up Meetings



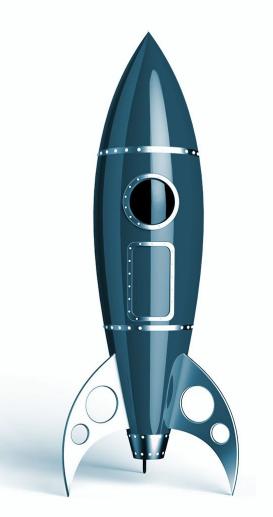
Project Timeline

First Day of Module 05	Divide into groups.	
	Write a user story.	
	Create a wireframe.	
	Create a user flow diagram.	
	 Submit project proposal for approval. 	
Modules 05-06	Continue project development.	
	Prepare for presentations.	
Last Day of Madula 06	Give presentations!	
Last Day of Module 06	• Give presentations:	

Get Professional

Projects are portfolio pieces

Use Project Week as an opportunity to **push yourself** and prove what you know.



Project Requirements

Must be responsive and have a polished UI

Must include at least one modal (instead of alert, prompt, or confirm methods)

Must use client-side storage to store persistent data

Have a quality README

Must be interactive (i.e: accept and respond to user input)

Must be deployed to GitHub Pages

Must meet good quality coding standards (indentation, scoping, naming, etc.)

Use a CSS framework (see next slide)

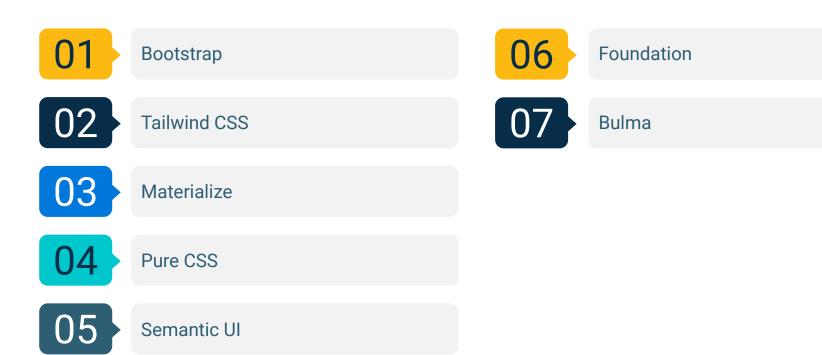


One of the requirements for this project is to incorporate a **CSS framework** into your application.

There are different ways to add these frameworks to your applications, but for the purposes of this front-end project, you'll need to use the **CDN** option.

CSS Frameworks

This is just a list to get you started. Feel free to use one not included in this list!



Presentation Requirements

You will be responsible for preparing a formal, 10-minute presentation that covers the following:

Elevator pitch	A one minute description of your application
Concept	What is your user story? What was your motivation for development?
Process	What were the technologies used? How were tasks and roles broken down and assigned? What challenges did you encounter? What were your successes?
Demo	Show your stuff!
Directions	For Future Development
Links	To the deployed application and the GitHub repository

Grading Requirements

Your project will be evaluated on the following:



06 Presentation

07 Collaboration

Today's Project Checklist

Create a one page proposal that contains the following:





Questions?

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