

# Web Development Boot Camp

## Lesson 15.1





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

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The practice of initiating, planning, executing, controlling, and closing the work of a team 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 ]

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01

Quick and well-coordinated in movement; lithe: an agile leap.

02

Active; lively: an agile person.

03

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

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01

## **Deliver Value**

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

02

## **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

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Working software is the primary measure of progress

Not like this...



...instead like this!





What is an MVP?

# Minimum Viable Product (MVP)

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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

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Ask Questions!



Who is your audience?



What is the problem that the product will address?



How does the product solve that problem?

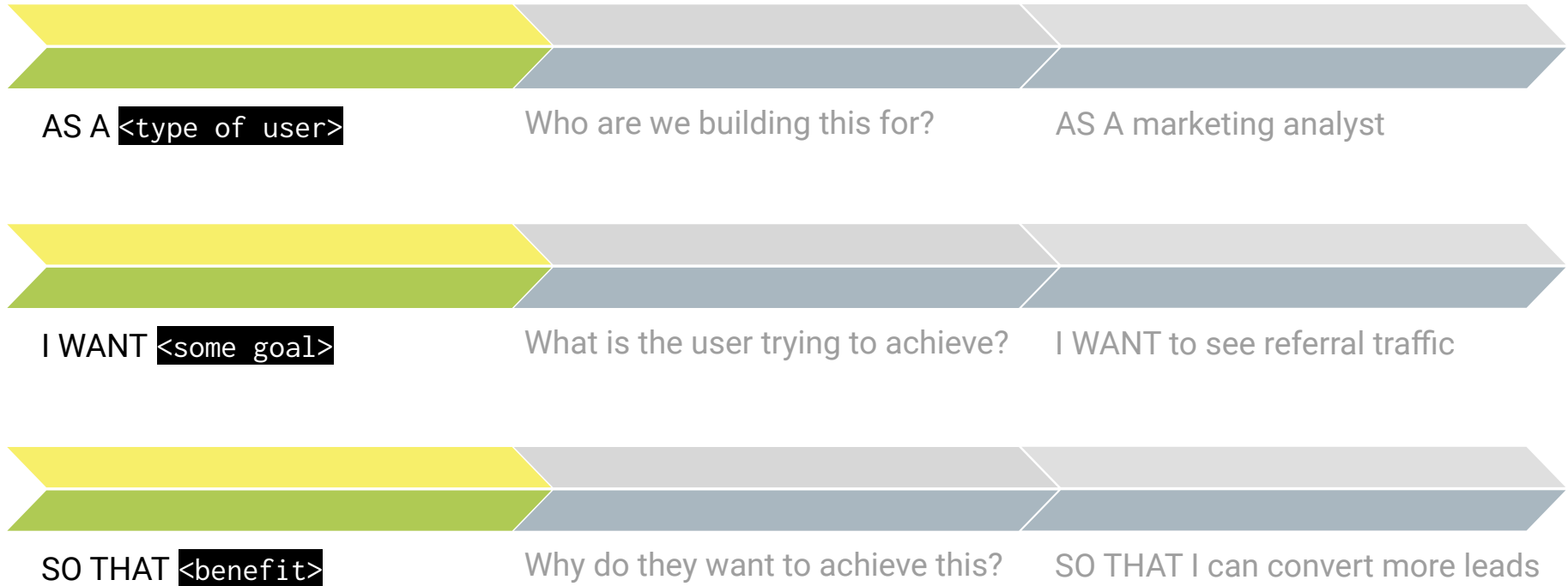




What is a user story?

# User stories

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# User stories

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AS A **<type of user>**

Who are we building this for?

AS A marketing analyst



I WANT **<some goal>**

What is the user trying to achieve?

I WANT to see referral traffic



SO THAT **<benefit>**

Why do they want to achieve this?

SO THAT I can convert more leads

# User stories

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Who are we building this for?

AS A **marketing analyst**

I WANT **<some goal>**

What is the user trying to achieve?

I WANT to **see referral traffic**

SO THAT **<benefit>**

Why do they want to achieve this?

SO THAT I can **convert more leads**



What is acceptance criteria?

# Acceptance Criteria

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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

# Acceptance Criteria

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GIVEN I **am an authenticated user**



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What is daily scrum?



# Stand-Up Meetings

01

What was accomplished?

02

What are your goals?

03

Are there any obstacles to achieving your goals?

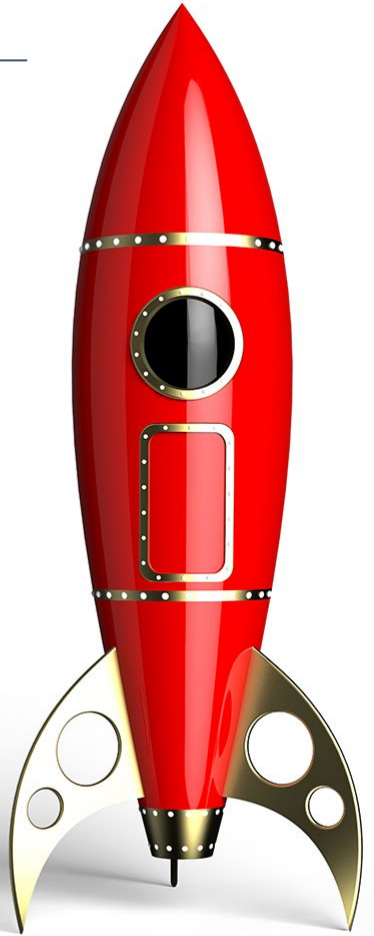


# Get Professional

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Projects are portfolio pieces

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



# Project 2

# Project Requirements

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Must use Node.js and Express.js to create a RESTful API



Must use a template engine, such as Handlebars.js



Must use MySQL and the Sequelize ORM for the database



Must have both GET and POST routes for retrieving and adding new data



Must be deployed using Heroku (with data)



Must use at least one new library, package, or technology that we haven't discussed

# Project Requirements

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Must have a polished UI



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



Must be responsive



Must have a folder structure that meets the MVC paradigm



Must include authentication (cookies and express-session)



Must protect API keys and sensitive information with environment variables

# Presentation Requirements

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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 to the deployed application and the GitHub repository

# Project Metrics

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Your project will be evaluated on the following:



Concept



Design (application quality)



Functionality (meets all technical acceptance criteria)



Presentation



Collaboration



Repository quality



Deployment



Questions?