

# Software Project Planning

Prof. Ian Applebaum • Temple University CIS 4398 Projects in Computer Science • 09/16/22

## Project Management

What is a project?

## **What is a project**

**Every project or program has four basic dimensions:**

- Its inherent size, usually measured in terms of value;
- The degree of technical difficulty in creating the output;
- The complexity of the relationships (“small p” politics) with the stakeholders; and
- The degree of uncertainty involved in the work.

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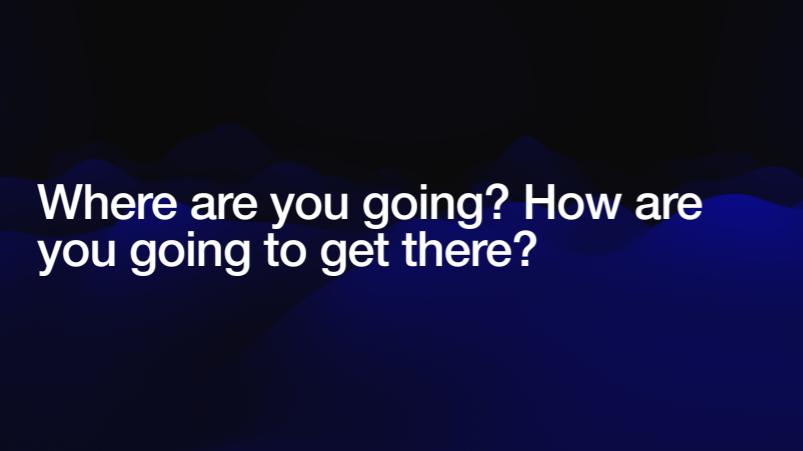
**Installing a standard software upgrade across a large organization based in several different cities and with several operating divisions.**

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## **Project Management**

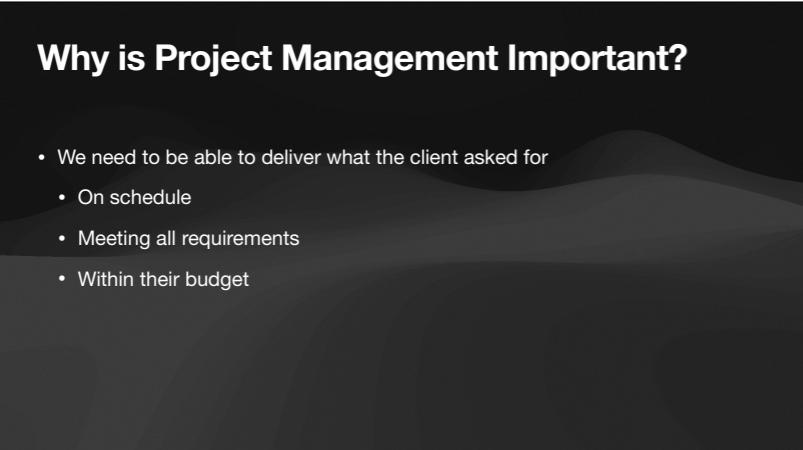
**It's actually a science.**

- Project management is the application of processes, methods, knowledge, skills and experience to achieve the project objectives.
- “what’s to be done” and “how to do it” are well understood by all key stakeholders including the client and the project team.



**Where are you going? How are you going to get there?**

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### **Why is Project Management Important?**

- We need to be able to deliver what the client asked for
  - On schedule
  - Meeting all requirements
  - Within their budget



**Proposal Approved and Requirements Defined.**

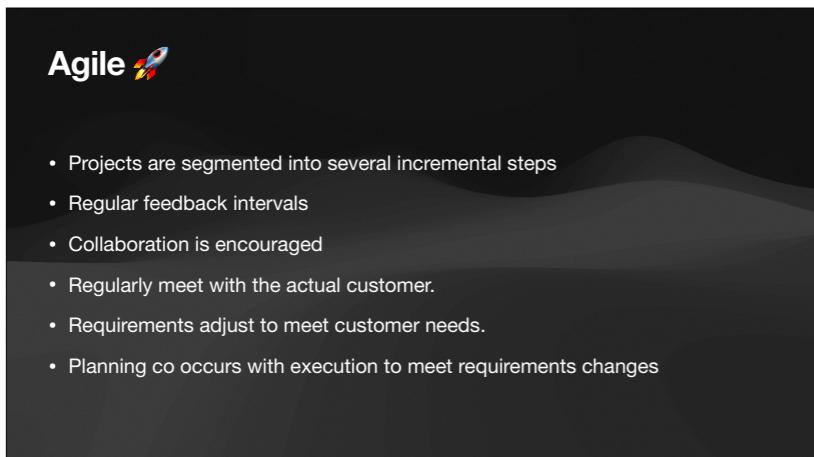
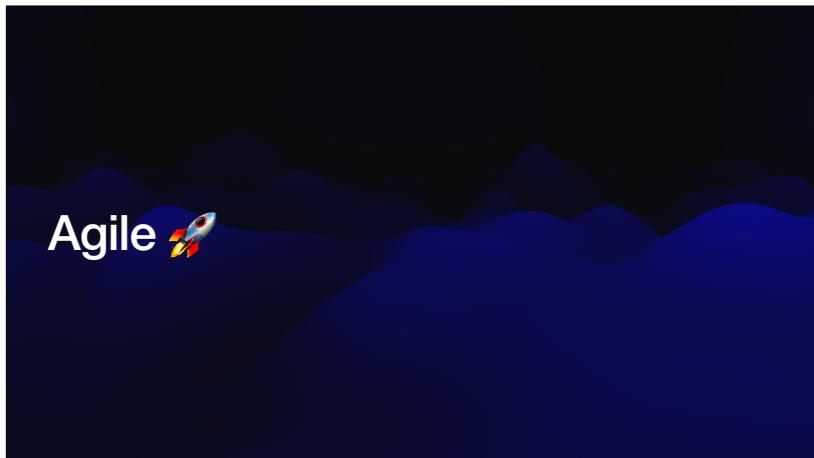
## Project Planning Phase

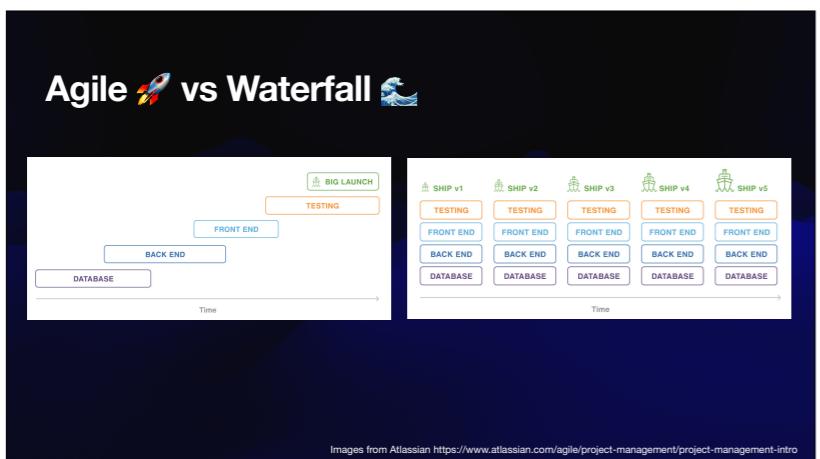
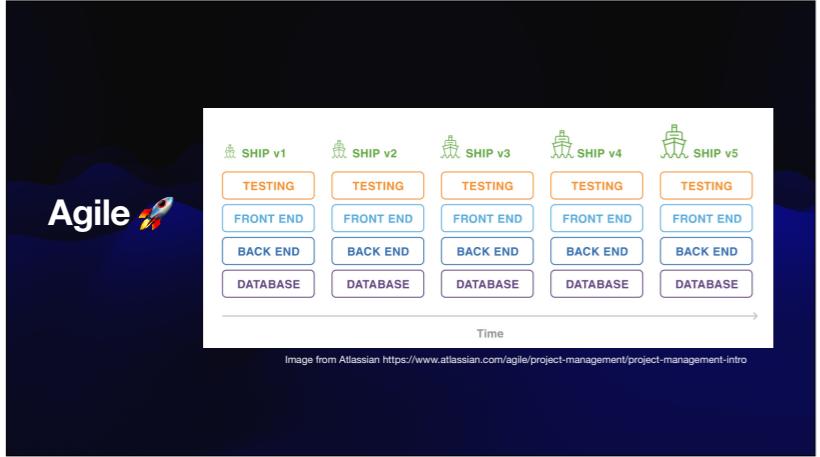
- Project Documented
- Deliverables defined
- Schedule defined

## Waterfall

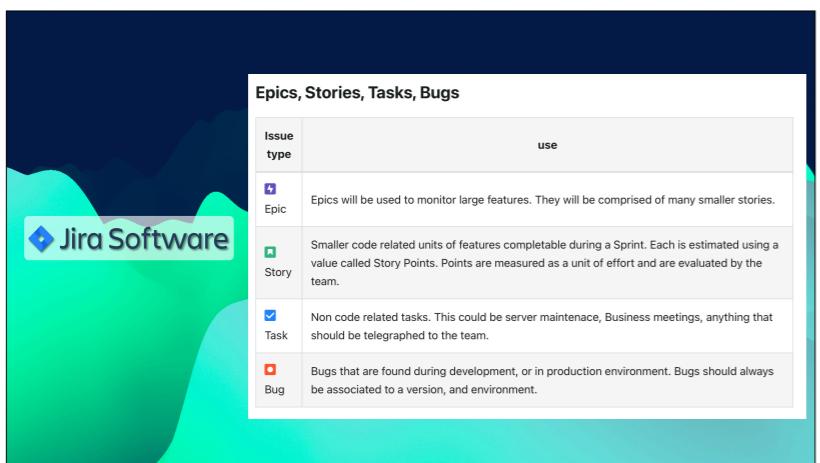
## Waterfall

- Clearly defined sequence of execution with project phases.
- Phases do not advance until approved.
- Project Development does not start until every aspect is planned.
- No room for requirements changes
- If something goes wrong you'll have to fix it in another project.





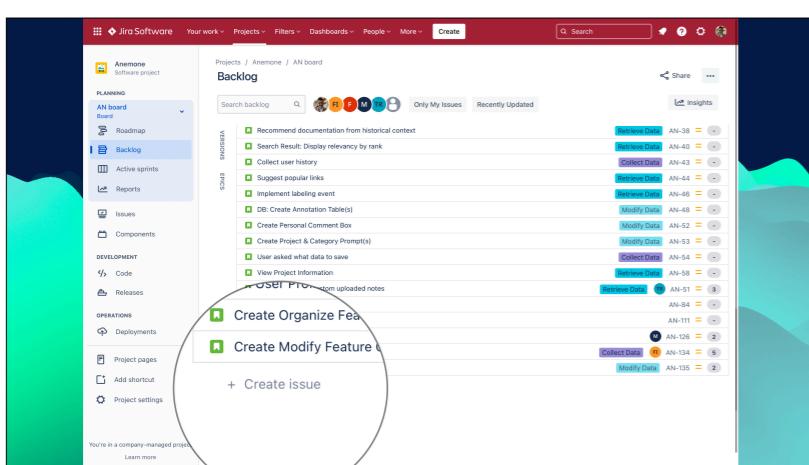
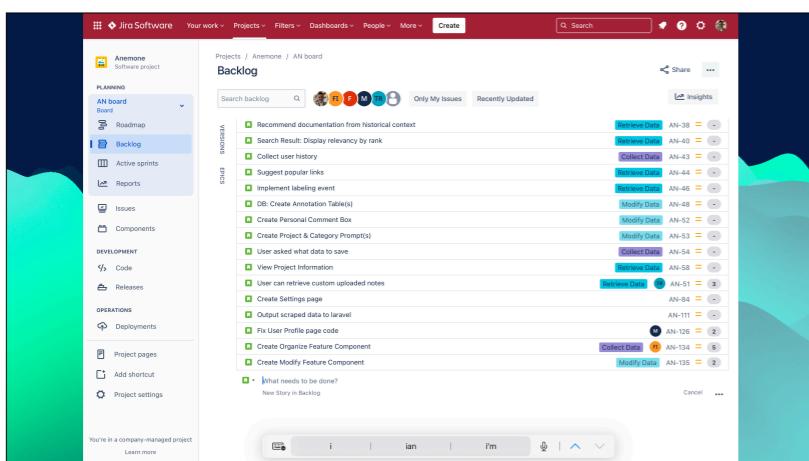
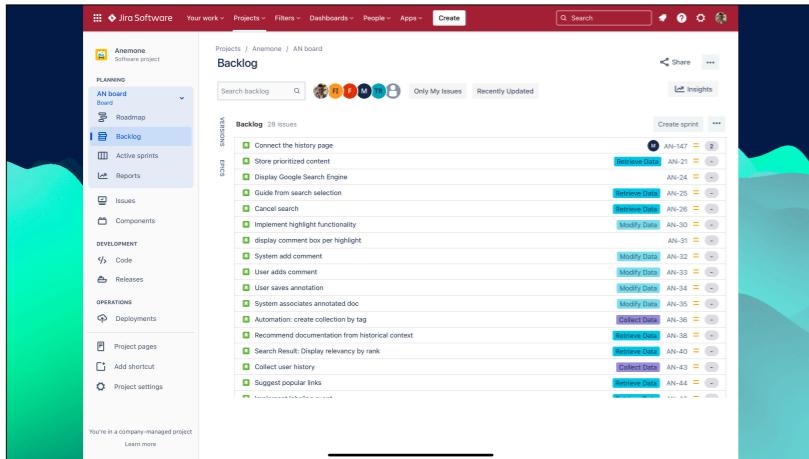
How do we achieve Agile? Aren't we doing waterfall right now???



## Defining Backlog

What should be stories?

- Stories should come straight from your requirements document.
- You could also go back to your Miro Event Storming board and use the events as possible stories. (there is a miro feature that lets you add these stickies straight into Jira)
- Stories could also take the shape:
  - As a user, I want to \_\_\_\_\_ so that I can \_\_\_\_\_



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Anemone Software project

PLANNING

- AN board
- Board
- Roadmap
- Backlog**
- Active sprints
- Reports

ISSUES

- Issues
- Components

DEVELOPMENT

- Code
- Releases

OPERATIONS

- Deployments

You're in a company-managed project Learn more

Backlog

Search backlog Q Insights

Only My Issues Recently Updated

SORT BY

- Recommend documentation from historical context
- Search Result: Display relevancy by rank
- Collect user history
- Suggest popular links
- Implement labeling event
- DB: Create Annotation Table(s)

User Can

- Create Settings page
- Create Settings page
- Output scraped data to
- Page code
- Story
- Task
- Bug

What needs to be done

New Story in Backlog

Issues

AN Sprint 8 14 issues

Prepare for Final Demo - Implement React components for Registration, Login, Logout - Connect AuthZ/AuthN flow between React & Laravel components - Dockerize react & laravel

14:04:22 8:01 PM - 20 Apr 22 10:00 PM

Epics

- Dockerize Laravel
- Dockerize python app
- Update Documents migrations
- Add more websites to manually scrape
- Call python script from Laravel
- Create a register pages
- Create a login pages
- Create a Email verification pages
- Connect the register page
- Update swagger documentation
- Revise and Resubmit Documentation
- Connect the login page
- Connect the Email verification pages
- NGINX PM

Issues

AN-38 AN-40 AN-43 AN-44 AN-46 AN-48 AN-50 AN-52 AN-53 AN-54 AN-56 AN-58 AN-59 AN-60 AN-61 AN-62 AN-63 AN-64 AN-65 AN-66 AN-67 AN-68 AN-69 AN-70 AN-71 AN-72 AN-73 AN-74 AN-75 AN-76 AN-77 AN-78 AN-79 AN-80 AN-81 AN-82 AN-83 AN-84 AN-85 AN-86 AN-87 AN-88 AN-89 AN-90 AN-91 AN-92 AN-93 AN-94 AN-95 AN-96 AN-97 AN-98 AN-99 AN-100 AN-101 AN-102 AN-103 AN-104 AN-105 AN-106 AN-107 AN-108 AN-109 AN-110 AN-111 AN-112 AN-113 AN-114 AN-115

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Project pages

Add shortcut

Project settings

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Epics

- Application AuthzAuthn Flow
- User Registration Flow
- Retrieve Data
- Collect Data
- Anemone Vision Alignment

Issues without epics

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