

AGILE DEVELOPMENT

WITH

JIRA AND GREENHOPPER

CS595(A) - Computer Science Capstone Course

FallArm Project

Aditya Ghadigaonkar (Team Lead) – 11101

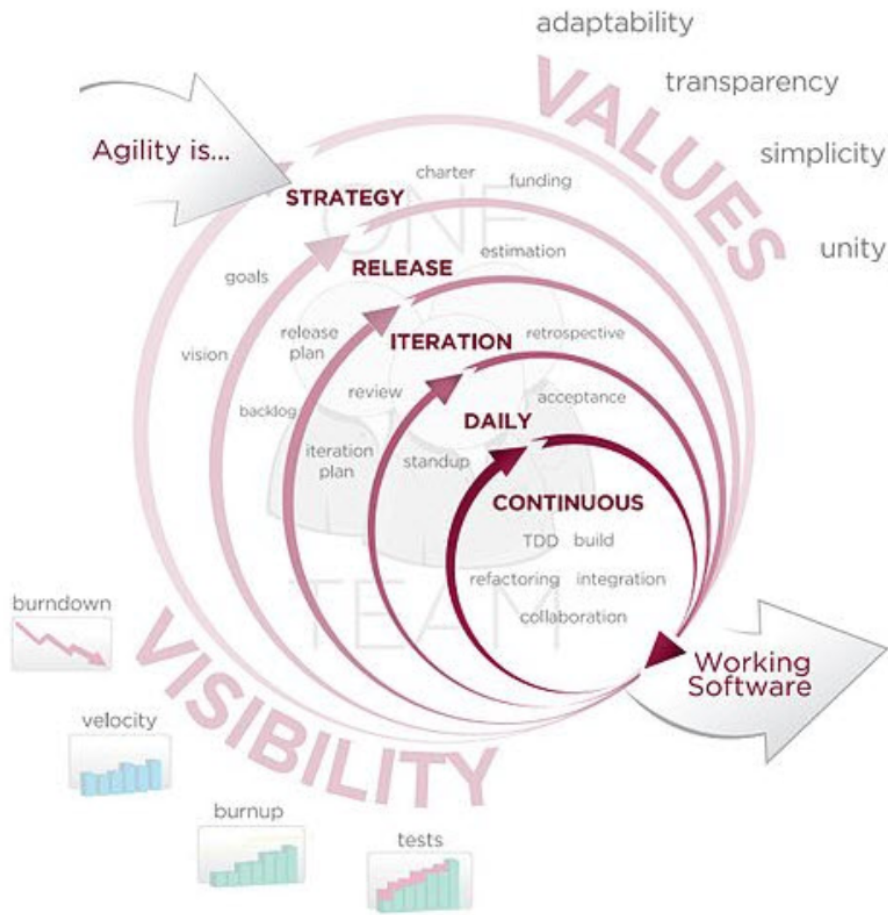
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Rohini Mukkala – 10517

Overview



The Four Phases of Traditional Software Development :

- Requirements
- Architecture and Design
- Development
- Testing, delivery, and feedback

Agile software development:

Agile software development is a group of software development methods in which requirements and solutions evolve through collaboration between self-organizing, cross-functional teams. It promotes adaptive planning, evolutionary development, early delivery,

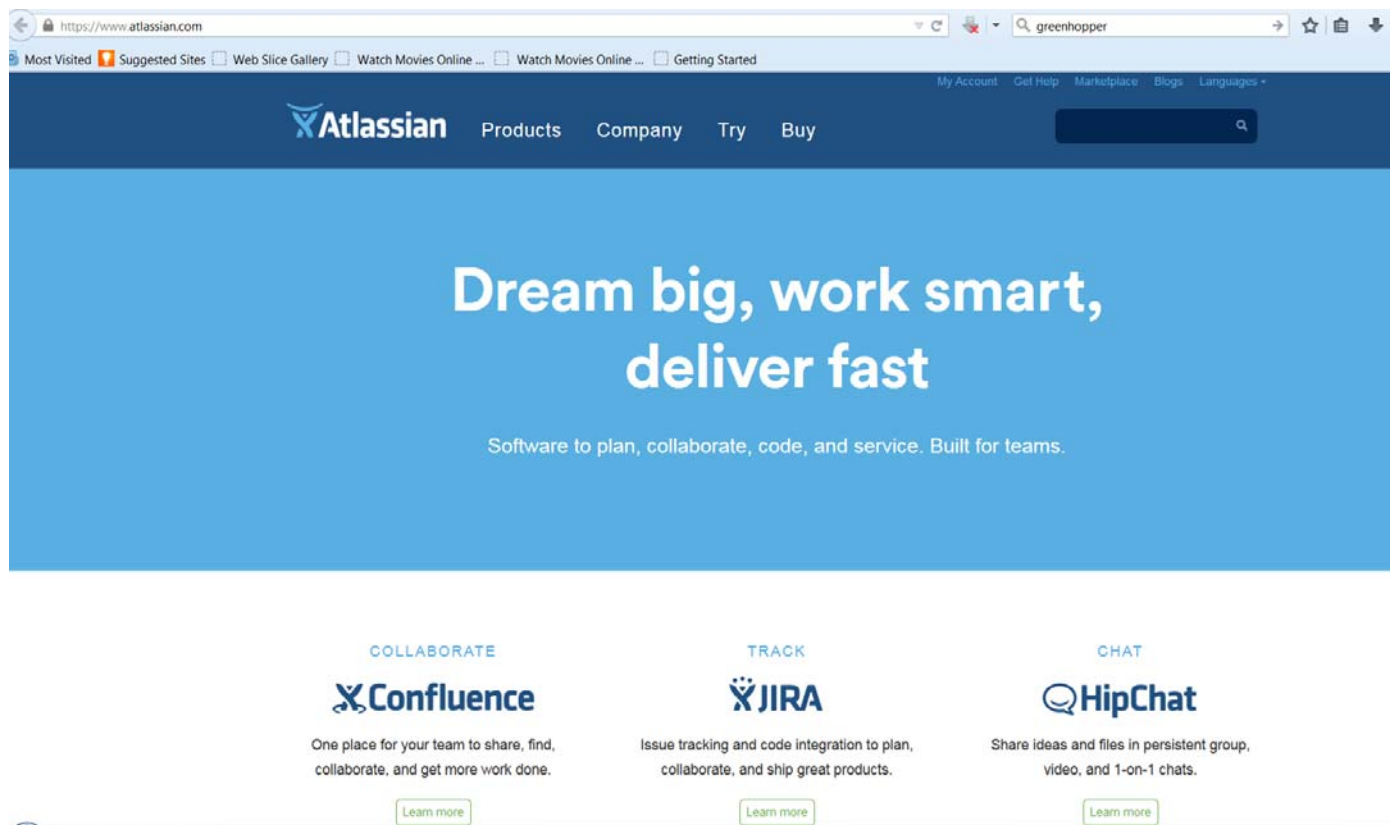
continuous improvement, and encourages rapid and flexible response to change.

JIRA:

JIRA is the tracker for teams planning and building great products. **JIRA** is a proprietary issue tracking product, developed by Atlassian. It provides bug tracking, issue tracking, and project management functions.

Set up JIRA for Agile software development process:

<http://www.atlassian.com/>



JIRA Configuration:

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Products

- JIRA (Cloud) Subscription
- JIRA Agile (Cloud) Subscription

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Inbox (1,437) - anusha17.e... QIRIS Agile Development Process JIRA Projects - JIRA

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JIRA Welcome Projects Issues Agile Create Invite Search

Administration

Search JIRA admin

Projects Issues System Add-ons User management Billing Discover new applications

Projects

[Project Categories](#)

Project list [+ Add Project](#)

Name	Key	URL	Project Lead	Default Assignee	Operations
Final pro	FP	No URL	anusha eppakayala [Administrator]	Unassigned	Edit Delete

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Create Release Versions:

The screenshot shows the JIRA Project Administration page for a project named 'Final pro'. The page is divided into several sections: Summary, Issue Types, Versions, Components, Roles, and Permissions. The 'Summary' section on the left lists various project settings. The 'Issue Types' section shows the 'FP: Scrum Issue Type Scheme' with types like Bug, Epic, Story, Task, and Sub-task. The 'Versions' section indicates that the project has no unarchived versions. The 'Components' section shows that the project does not use any components. The 'Roles' section lists the Project Lead as 'anusha eppakayala [Administrator]' and the Default Assignee as 'Unassigned'.

Final pro
Key: FP Lead: anusha eppakayala [Administrator] Category: None URL: No URL

Summary

- Issue Types
 - Bug
 - Epic
 - Story
 - Sub-task
 - Task
- Workflows
- Screens
- Fields
- Project Mappings
- Versions
- Components
- Roles
- Permissions
- Issue Security
- Notifications

Issue Types

Keep track of different types of issues, such as bugs or tasks. Each issue type can be configured differently.

Scheme:
FP: Scrum Issue Type Scheme

- Bug
- Epic
- Story
- Task
- Sub-task SUB-TASK

Versions

For software projects, JIRA allows you to track different versions, e.g. 1.0, 2.0. Issues can be assigned to versions.

This project has no unarchived versions. [Add a version](#)

Components

Projects can be broken down into components, e.g. "Database", "User Interface". Issues can then be categorised against different components.

This project does not use any components. [Add a component](#)

Roles

JIRA enables you to allocate particular people to specific roles in your project. Roles are used when defining other settings, like notifications and permissions.

Project Lead: anusha eppakayala [Administrator]
Default Assignee: Unassigned
Roles: [View Project Roles](#)

The screenshot shows the JIRA Releases page for the 'Final pro' project. The page displays a table of releases with columns for Version, Status, Progress, Start date, Release date, and Description. The table lists three releases: V1.0, Beta 2.0, and Beta 1.0, all with a status of 'UNRELEASED'. The 'Manage Versions' button is visible in the top right corner.

Final pro
Final pro

Releases

Status: Unreleased Contains text... Q

Version	Status	Progress	Start date	Release date	Description
V1.0	UNRELEASED	No issues	01/Mar/15	15/Mar/15	Release version 1.0
Beta 2.0	UNRELEASED	No issues	16/Feb/15	28/Feb/15	Beta release 2
Beta 1.0	UNRELEASED	No issues	12/Jan/15	15/Feb/15	Beta release 1

Manage Versions

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Creating Tasks:

The screenshot shows the JIRA Search results page for the project 'FP'. The search criteria are 'project = "FP" ORDER BY created DESC'. The results are displayed in a table with columns: T, Key, Summary, Assignee, Reporter, P, Status, Resolution, Created, Updated, and Due. There are 3 results shown.

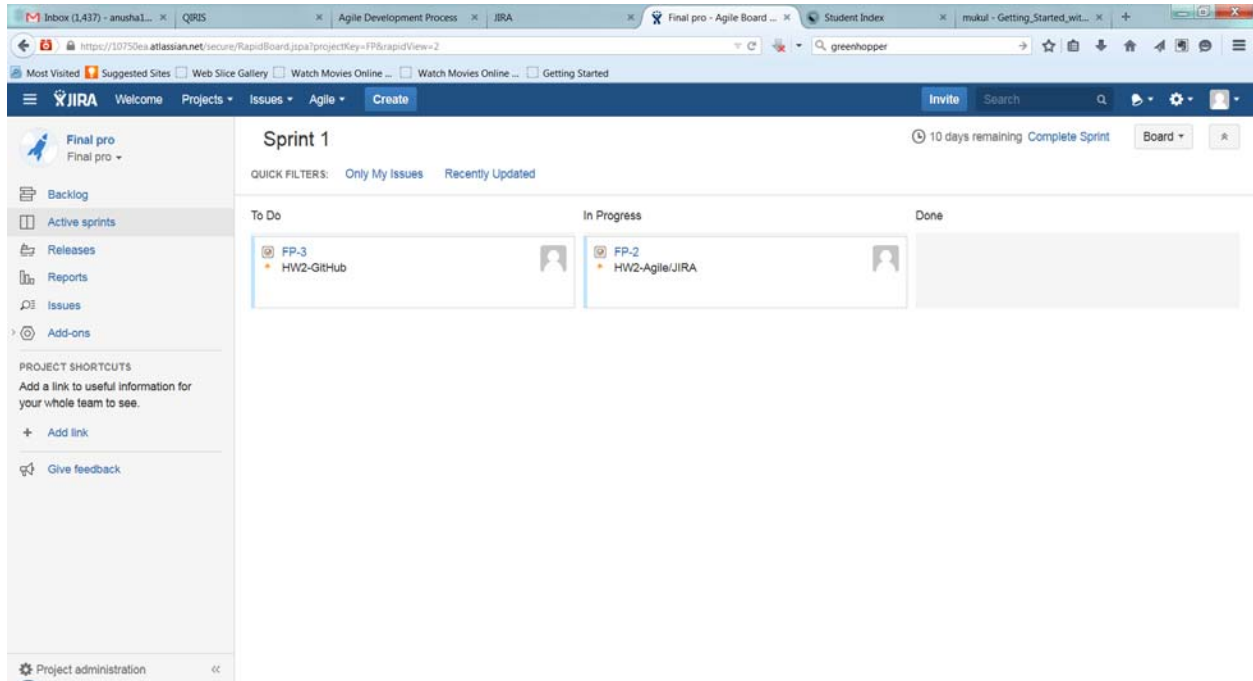
T	Key	Summary	Assignee	Reporter	P	Status	Resolution	Created	Updated	Due
FP-3	HW2-GitHub		anusha eppakayala [Administrator]	anusha eppakayala [Administrator]		TO DO	Unresolved	01/Feb/15	01/Feb/15	
FP-2	HW2-Agile/JIRA		anusha eppakayala [Administrator]	anusha eppakayala [Administrator]		IN PROGRESS	Unresolved	01/Feb/15	01/Feb/15	
FP-1	HW1-Resume Preparation		anusha eppakayala [Administrator]	anusha eppakayala [Administrator]		DONE	Done	01/Feb/15	01/Feb/15	

After assigning Versions to Tasks:

The screenshot shows the JIRA Releases page for the project 'Final pro'. The status is 'Unreleased'. The releases are listed in a table with columns: Version, Status, Progress, Start date, Release date, and Description. There are 3 releases shown.

Version	Status	Progress	Start date	Release date	Description
V1.0	UNRELEASED	No issues	01/Mar/15	15/Mar/15	Release version 1.0
Beta 2.0	UNRELEASED		16/Feb/15	28/Feb/15	Beta release 2
Beta 1.0	UNRELEASED		12/Jan/15	15/Feb/15	Beta release 1

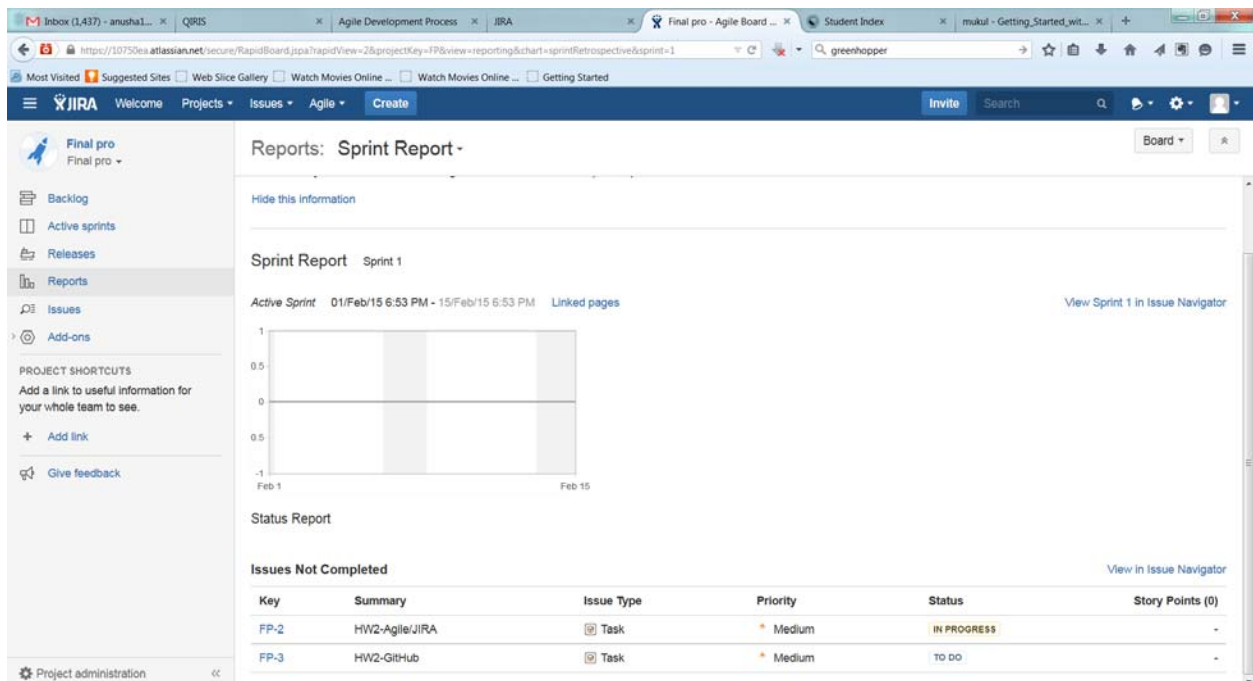
Active Sprints List:



The screenshot shows the JIRA Agile interface for 'Sprint 1'. The left sidebar contains navigation links: Backlog, Active sprints, Releases, Reports, Issues, and Add-ons. The main area displays the sprint board with three columns: 'To Do', 'In Progress', and 'Done'. Under 'To Do', there is a card for 'FP-3 HW2-GitHub'. Under 'In Progress', there is a card for 'FP-2 HW2-Agile/JIRA'. The 'Done' column is empty. At the top right, it indicates '10 days remaining' and a 'Complete Sprint' button. The bottom left shows 'Project administration'.

Reports:

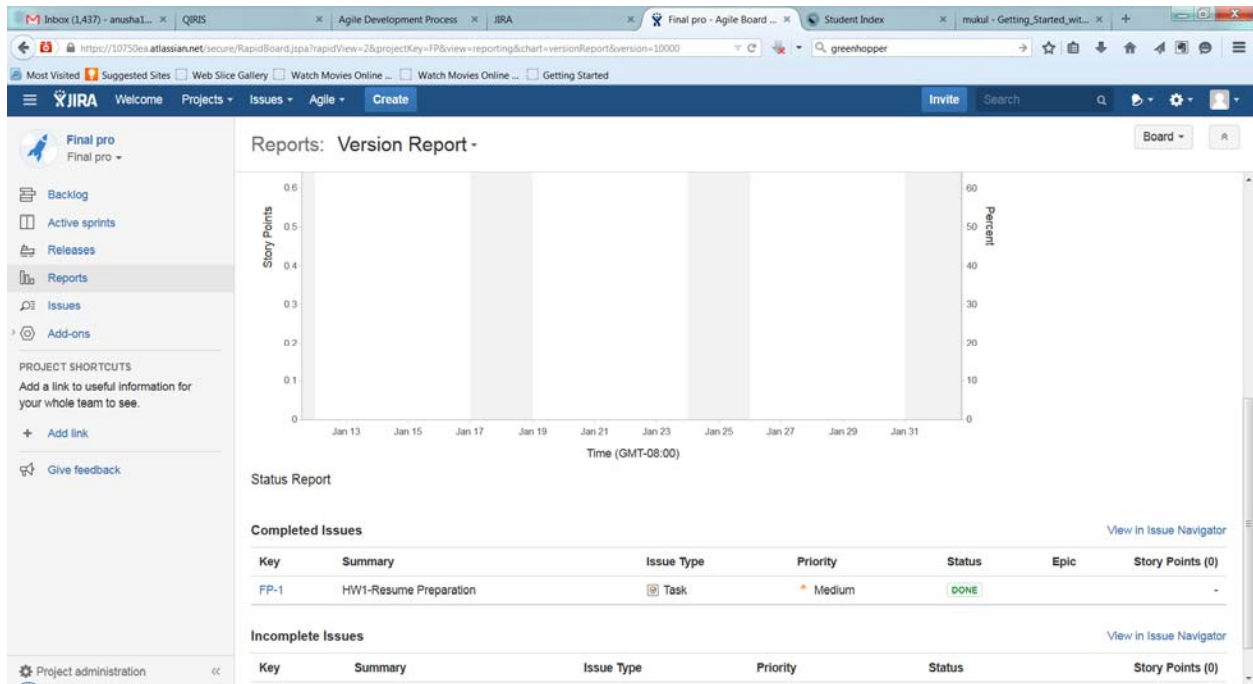
Sprint Report:



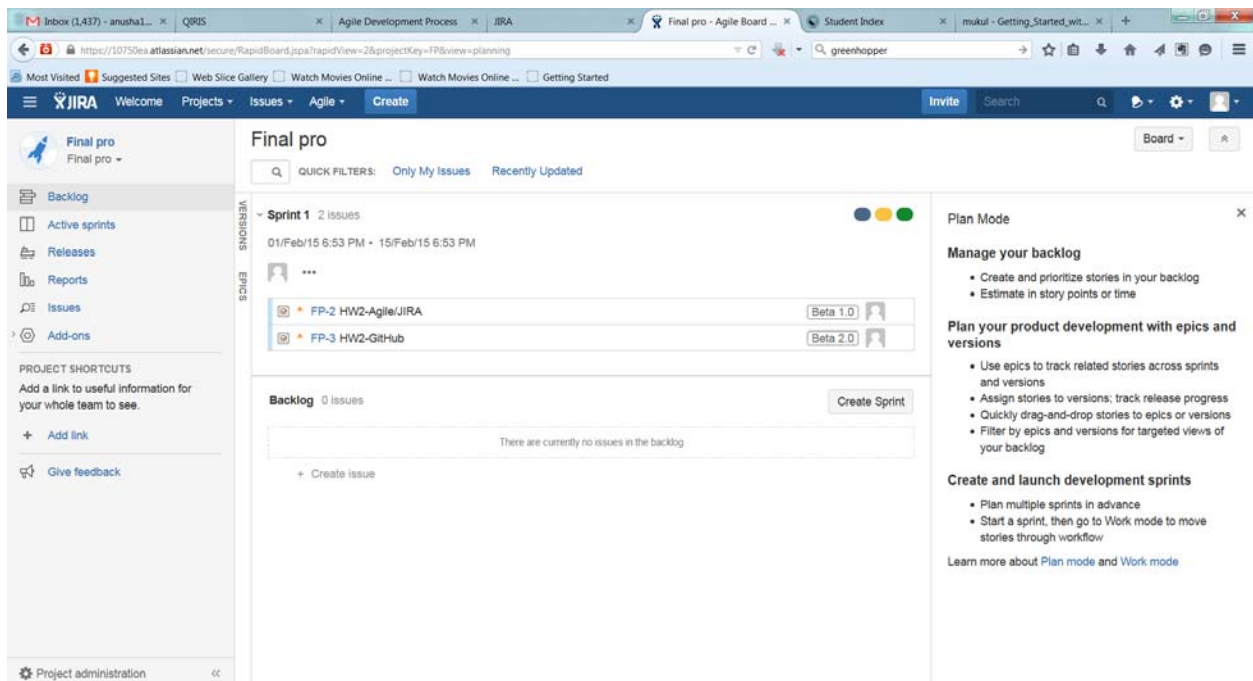
The screenshot shows the 'Reports: Sprint Report' for 'Sprint 1'. The left sidebar is the same as the previous screenshot. The main area displays the sprint report. At the top, it says 'Hide this information'. Below that, it shows 'Sprint Report' for 'Sprint 1'. The 'Active Sprint' is '01/Feb/15 6:53 PM - 15/Feb/15 6:53 PM'. There is a 'View Sprint 1 in Issue Navigator' link. Below this is a bar chart showing the progress of the sprint. The chart has a y-axis from -1 to 1 and an x-axis from Feb 1 to Feb 15. The bars show a steady increase in progress. Below the chart is a 'Status Report' section. It includes a table of 'Issues Not Completed'.

Key	Summary	Issue Type	Priority	Status	Story Points (0)
FP-2	HW2-Agile/JIRA	Task	Medium	IN PROGRESS	-
FP-3	HW2-GitHub	Task	Medium	TO DO	-

Version Report:



Release Burndown:



Cumulative Flow Diagram:

