

# Project Lifecycle Management

## Iteration 2

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# Minimum Requirements

- Register
- Login
- Manage project
- Manage iteration
- Manage user story
- Manage task

# User Stories This Iteration

## Project

Create, Update, View projects

## Iteration

Create, Update, View iterations under a project

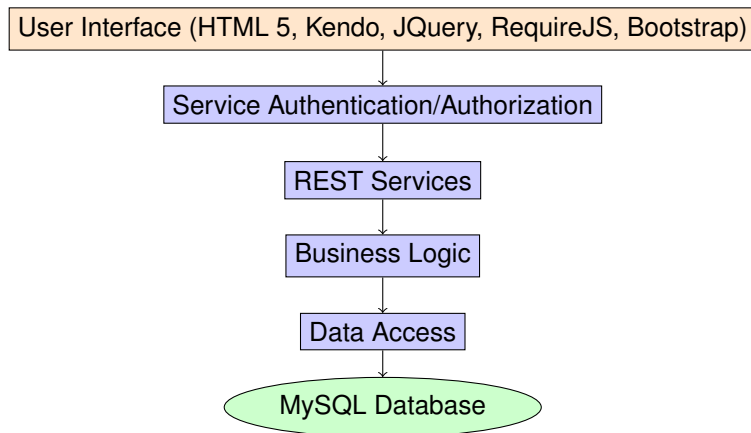
## User Story

Create, Update, View user stories under an iteration

## Task

Create, Update, View tasks under a user story

# Software Architecture



# Software Architecture

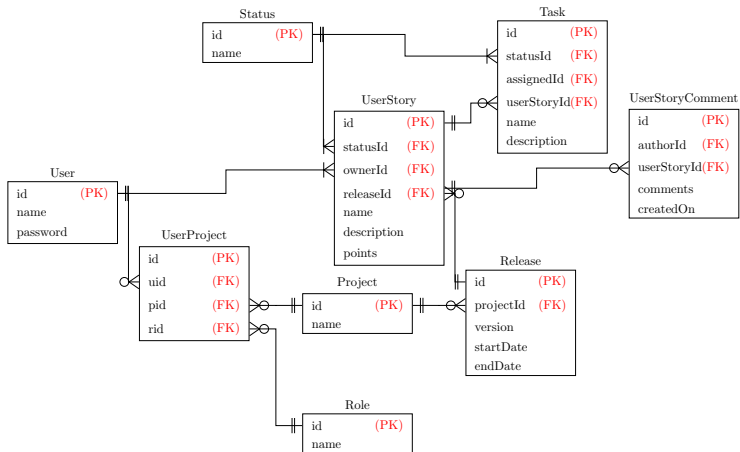
## User Interface

- Model View View Model (MVVM) pattern
- MVVM separates UI and back end
- Kendo framework (jQuery library) used for MVVM

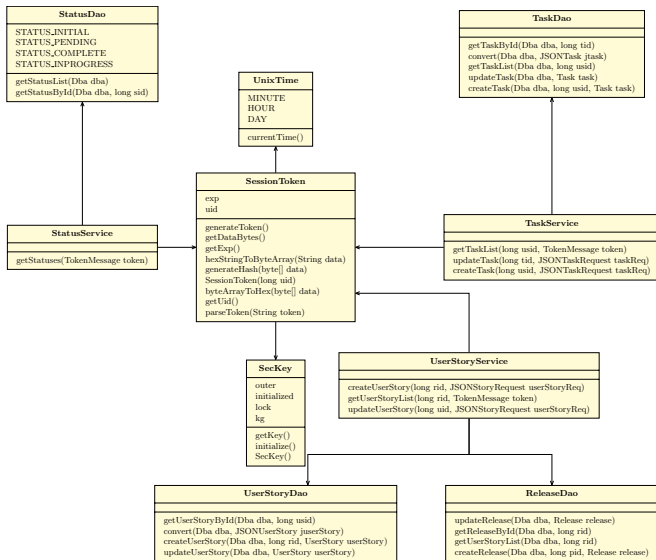
## Service

- Tiered architecture
- Authentication
  - username and password → session token
- Authorization
  - session token and project ID → access granted/denied
- Business layer, Data access layer, Database layer

# Database Design



# Class Diagram



# Development Tools Used

- Git / GitHub for version control and issue tracking
- Pivotal Tracker for requirement analysis
- Google Group for communication
- JUnit for service testing
- Selenium for UI testing



# Deployment Tools Used

- Apache Tomcat
- Apache Ant
- MySQL

# Service Testing

## Unit Testing for Business Logic

- Permissions – Passed
- Session Tokens – Passed

## Integration Testing for REST Services

- Project – Passed
- Iteration – Passed
- Status (user story and task) – Passed
- Task – Passed
- User Story – Passed

# Metrics

## Service Code

This Iteration:

- 38 files changed
- 2462 insertions
- 55 deletions

Total:

- 69 files
- 6383 lines of code

# Metrics

## UI Code

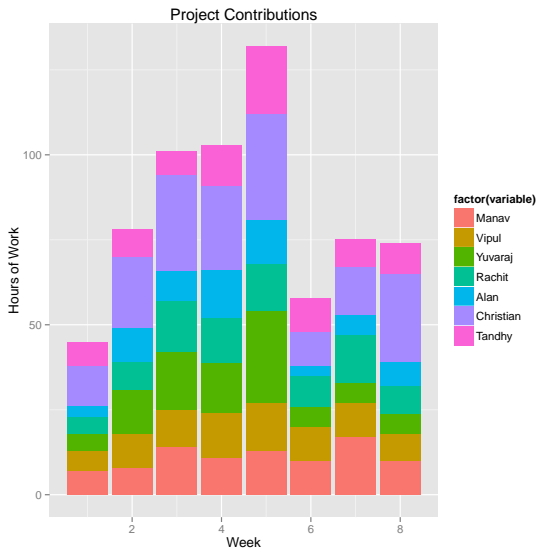
This Iteration:

- 13 files changed
- 2501 insertions
- 6 deletions

Total:

- 118 files
- 7953 lines of code

# Metrics



# Current Progress

## Minimum Functionality Revisited

- Register – Done
- Login – Done
- Manage projects – Needs user management
- Create iterations – Done
- Manage user stories – Done
- Manage tasks – Done

# Lessons Learned

- Communication
- Steady progress across the iteration

# Future Work

- Adding users to projects
- Migrating user stories to different iterations
- Generating reports