

红黑树课堂

— 专业的海外IT辅导机构 —



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本节班课内容

- project assessment 中评分标准解析
- 分析 Topics
- Jira

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9900 课程需要注意事项

- Lab 是强制的
- Jira 需要小组的 Scrum Master 创建
- 需要格外重视文档的书写，如 proposal, report, readme, 代码注释

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9900 Assessment

- **The Proposal (10%)**
- **2 个 The Progressive Demos (每个 2.5%)**
- **2 个 The Retrospectives (每个 2.5%)**
- **The Software Quality (20%)**
- **The Report (20%)**
- **The Demonstration / Presentation (20%)**
- **The Peer Assessment (20%)**

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Proposal - User Stories

b) User stories and Sprints (50%):

- Product backlog of correctly structured user stories, describing the functionality to be delivered, with **screenshots** showing all these user stories defined in **Jira**. The entire text of each user story should be readable inside the report.
- Defines the **start and end dates** for all **sprints** envisaged during the term.
 - Note: ensure that the sprints you define allow you to undertake a **progressive demo** in each of **Weeks 5 and 8**; as well as a retrospective before each of the labs in **Weeks 7 and 9**.
- Identifies **user stories** in scope for the **first sprint** with **screenshots** showing all user stories allocated to the first sprint in **Jira**. The entire text of each user story should be readable inside the report.
- Clearly communicates how all project **objectives** are satisfied by **user stories** that are defined.
- Describes how some of the defined user stories provide **novel** functionality compared to existing systems.

User Stories

- A user story helps agile software development teams capture a simplified and high-level description of a requirement from an end user perspective

As a [who] I want to [what] so that [why]

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User Stories

Example:

- *As an online banking customer, I want a strong password, so that my credit card information is secure*

Acceptance Criteria:

- *The password must be at least eight (8) characters*
- *The password must contain at least one character from each of the following groups:*
 - *lower case alphabet*
 - *upper case alphabet*
 - *Numeric*
 - *special characters (!, @, #, \$, %, ^, &, *)*

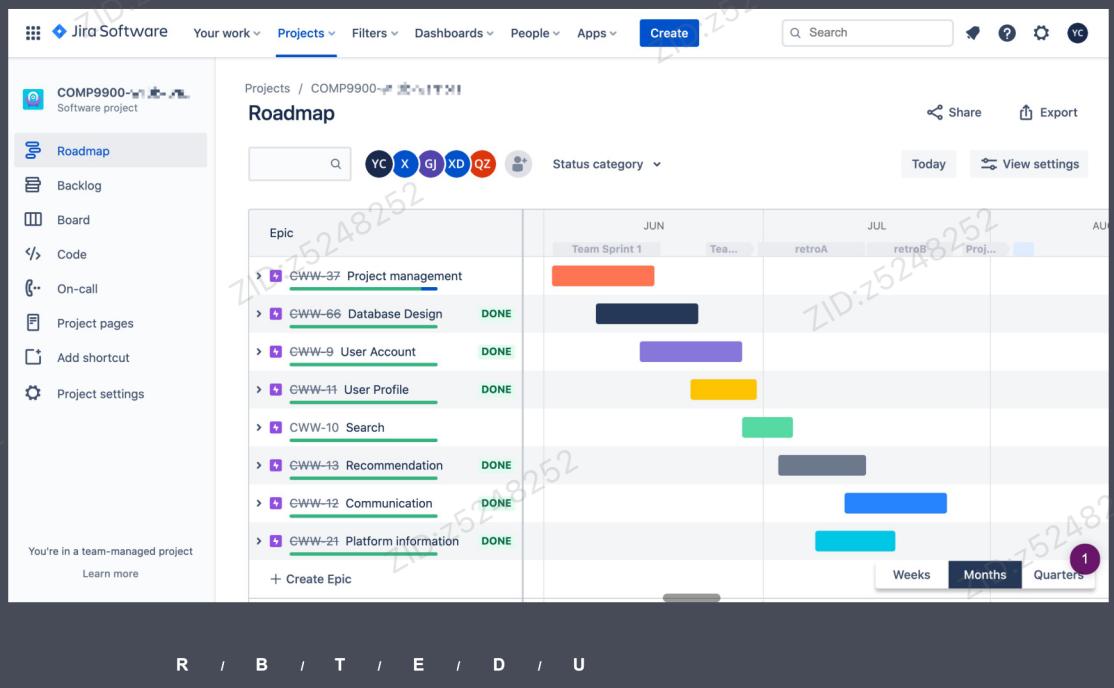
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Jira key points

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- Backlog
- Board
- Sprint
- Epics
- Issues



Jira - Board

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The Jira Board interface for the 'Teams in Space' project. The board is organized into four columns: TO DO, IN PROGRESS, CODE REVIEW, and DONE.

- TO DO:** 5 items
 - Engage Jupiter Express for outer solar system travel (Space Travel Partners, TIS-25)
 - Create 90 day plans for all departments in the Mars Office (Local Mars Office, TIS-12)
 - Engage Saturn's Rings Resort as a preferred provider (Space Travel Partners, TIS-17)
 - Enable Speedy SpaceCraft as the preferred (Space Travel Partners, TIS-18)
- IN PROGRESS:** 5 items
 - Requesting available flights is now taking > 5 seconds (SeeSpacez Plus, TIS-8)
 - Engage Saturn Shuttle Lines for group tours (Space Travel Partners, TIS-15)
 - Establish a catering vendor to provide meal service (Local Mars Office, TIS-15)
 - Engage Saturn Shuttle Lines for group tours (Space Travel Partners, TIS-15)
 - Engage Saturn Shuttle Lines for group tours (Space Travel Partners, TIS-15)
- CODE REVIEW:** 2 items
 - Register with the Mars Ministry of Revenue (Local Mars Office, TIS-11)
 - Draft network plan for Mars Office (Local Mars Office, TIS-15)
- DONE:** 8 items
 - Homepage footer uses an inline style - should use a class (Large Team Support, TIS-68)
 - Engage JetShuttle SpaceWays for travel (Space Travel Partners, TIS-23)
 - Engage Saturn Shuttle Lines for group tours (Space Travel Partners, TIS-15)
 - Establish a catering vendor to provide meal service (Local Mars Office, TIS-15)
 - Engage Saturn Shuttle Lines for group tours (Space Travel Partners, TIS-15)
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Jira - Backlog

The screenshot shows the Jira Backlog interface for a project named "COMP9900-...". The left sidebar includes links for Roadmap, Backlog (selected), Board, Code, On-call, Project pages, Add shortcut, and Project settings. The main area displays a "Project Summary" with 3 issues and a "Backlog" section containing 5 issues. The backlog items are:

- CWW-4 As a charity manager, I need to create a profile so that I am able to advertise the charity which I am in. (Status: TO DO)
- CWW-5 As a charity manager, I need to maintain a list of needs on our user profile so that sponsors could find ... (Status: TO DO)
- CWW-6 As a charity manager, I need to communicate with sponsors who are interested to provide resources fo... (Status: TO DO)
- CWW-7 As a sponsor, I need to register and create a profile so that I am able to advertises my name, provide a ... (Status: TO DO)
- CWW-8 As a sponsor, I need to search charities by by keywords that match on any combination of charity nam... (Status: TO DO)

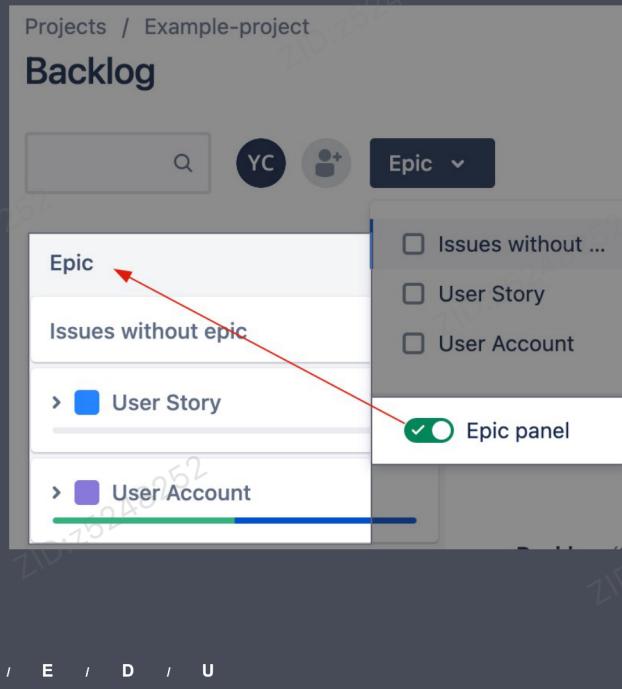
At the bottom, there is a "+ Create issue" button.

Jira - Backlog

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- **Backlog: a list of tasks that represents outstanding work in a project**
- **Backlog 中打开 Epic panel**
- **查看对应的模块**



Projects / COMP9900-2018-Software Engineering

Backlog

YC Insights Start sprint ...

Project Summary 3 Add dates (0 issues)

② 开始一个新的 sprint

① 创建新的 sprint (阶段目标) Create sprint

Backlog (5 issues)

- CWW-4 As a charity manager, I need to create a profile so that I am able to advertise the charity which I am in. TO DO
- CWW-5 As a charity manager, I need to maintain a list of needs on our user profile so that sponsors could find ... TO DO
- CWW-6 As a charity manager, I need to communicate with sponsors who are interested to provide resources fo... TO DO
- CWW-7 As a sponsor, I need to register and create a profile so that I am able to advertises my name, provide a ... TO DO
- CWW-8 As a sponsor, I need to search charities by by keywords that match on any combination of charity nam... TO DO

+ Create issue

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This screenshot shows the Jira Backlog interface for the project 'COMP9900-2018-Software Engineering'. The backlog contains five user stories under the 'Backlog' section. Each story has a green icon, a title, and a 'TO DO' status indicator. At the top right, there is an 'Insights' button, a 'Start sprint' button, and a 'Create sprint' button. A large overlay window is displayed, containing two numbered steps: '① 创建新的 sprint (阶段目标)' and '② 开始一个新的 sprint'.

- <https://my-example-project.atlassian.net/jira/software/projects/EX/boards/2/backlog>

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前后端分离的项目开发规范

1. 共同约定接口，并维护至共享文档

- 确定接口的功能，出参 & 入参

2. 前端开发页面，并使用模拟数据调试

- 前端人员根据页面设计，参考 Demo 开发页面，使用模拟数据调试和页面跳转测试

3. 后端开发服务端、并进行单元测试

- 服务端人员根据业务逻辑开发，编写测试用例，对开发功能进行测试

4. 前后端本地联调

5. 服务器部署联调

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前端 vs 后端

- 前端：UI&UX 交互设计，页面展示，数据请求+渲染
- 后端：提供接口，数据存储，数据处理

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前端代码及框架选择

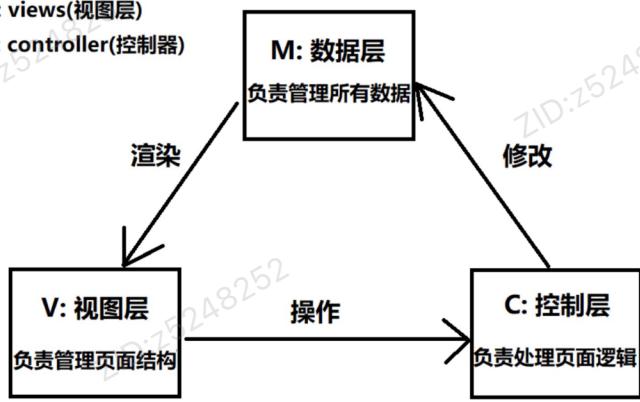
- **HTML + CSS + JavaScript + jQuery 等**
- **Vue (MVVM 渐进式 JavaScript 框架, 单页面应用)**
- **React (开源的 JavaScript 库, 侧重 UI, 模块化)**
- **Angular (开源的前端 Web 应用程序框架)**

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MVC vs MVVM

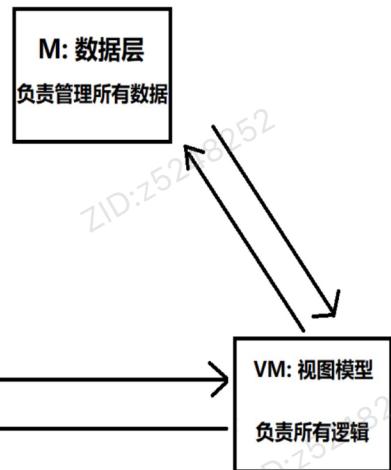
项目开发思想-MVC

M: model(数据层)
V: views(视图层)
C: controller(控制器)



项目开发思想-MVVM

M: model(数据层)
V: views(视图层)
VM: viewmodel(视图模型)



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后端代码及框架选择

- **Python**
 - **Flask RESTful + MySQL / SQLite**
- **Java**
 - **SpringBoot + Mybatis**
- **Node**
- ...

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