

Campus Events and Entertainment Center

Team - 2

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Monolithic Architecture

User Interface

后台管理

前台用户交互

RESTful API

订阅接口

上传接口

活动接口

订单接口

用户接口

推荐接口

Service

活动服务

用户服务

订单服务

推荐服务

邮件服务

支付服务
(Alipay)

OSS服务
(Minio)

订阅服务

DAO

OSS信息

活动信息

用户信息

订单信息

全局设定

Tech Report of Progress

- **Back-end**

- Implemented DAO layer for events, users and orders using JPA
- Implemented events, users and orders service
- Implemented RESTful API for users and events
- Implemented Alipay Service
- Implemented Minio OSS Service
- Implemented JWT Security Authentication, including login with both passwords and token.
- Completed feasibility test for permission control
- Completed feasibility test for payment
- Completed feasibility test for Minio upload

- **Front-end (user-end)**

- Completed design for each page
- Implemented basic components like event card, home page cover image and user info
- Implementing basic layout of each page

- **Front-end (manage)**

- Completed design for each page
- Install and get familiar with arco design framework and components
- Implementing each component of the design

Tech Report of Progress

- **Code Review**
 - Refine the back-end code and the project structure
 - Resolve the conflicts of each branch and merge to main

Tech Issues (Q&A)

1. Front-end progress looks slow

- **Limited Developers:** we have 2 front-end systems that needs to be developed and our developers assigned to front-end also need to take the job of designer which requires much time and brainstorming.
 - **Design Principle:** we follow the principle that component and layout go first. We first design the components and then fill in the layout.
 - **Code Review:** the project manager needs to check the code of each members and help them to refine the code, but the project manager was focusing on back-end part.
- Solution:** in fact, our front-end design progress is slow but not bad, the project manager will focus on the front-end then.

2. RESTful API is not completely implemented

- **Develop Principle:** our develop process is from the bottom layer to the top layer, hence our service layer and DAO layer is going well.
 - **Feasibility Test:** we first focused on the most challenging part of the project (OSS Service, Minio Service, JWT Authentication and Permission Control) and we have finished all the feasibility tests. Now there is no challenging tasks ahead of us.
- Solution:** Complete more RESTful API and provide them with a document to front-end developers.

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Conclusion

In the previous process of developing, we were mainly focusing on studying the most difficult part of the project and we already completed the feasibility tests. The base of the back-end is built, and later jobs will be easy. Some tasks go slow but are still in control. We will put more attention on the front-end after Sprint 1.

Main Tasks in the Future

- **Back-end**
 - Complete the basic RESTful API
 - Implement recommendation service
 - Implement email and subscribe service
 - Integrate with front-end
- **Front-end**
 - Complete the components and layout
 - Integrate with the back-end