

Project Number: 67

Project Title: Atlassian Forge

Project Clients: Jie Mee Chong

Project specializations: Software Development;Web Application Development;Artificial Intelligence (Machine/Deep Learning, NLP);Cloud Computing;

Number of groups: 1 group

Main contact: Jie Mee Chong

Background:

Forge is an Atlassian Platform that allows developers to build fully-functional apps rapidly, with built-in hosting, multiple development environments, and API authentication. It enables the creation of custom apps and integrations for Atlassian products as well as apps distributed via the Atlassian Marketplace. For more details, students are encouraged to explore the official Forge documentation.

Please see here for more info:

<https://drive.google.com/file/d/107MQbWRB3zNIFpQU5fu9Ymj8K6exRmMN/view?usp=sharing>

Requirements and Scope:

Students can choose from one of several Forge app project ideas or propose their own. The project options include:

- AI-Powered: Create a slide deck from a Confluence page (with AI-generated speaker notes and visuals).
- AI-Powered: Draft a Confluence page from a voice memo.
- Confluence whiteboard to Confluence page: Automate the transformation of whiteboard content into a Confluence page.
- Team Tamagotchi: Develop a virtual team pet accessible across Jira and Confluence.
- Confluence note taker: Create an app to take notes as you read a Confluence page.
- Dietaries tracker: Build an app to persist dietary information for users, aiding event organization.

The project involves developing a Forge app using Atlassian's integrated hosting and API authentication features. Students are expected to deliver a working app based on one of the project briefs.

Required Knowledge and skills:

- Proficiency in JavaScript programming (COMP1531 knowledge is sufficient).
- Basic React skills are helpful (and can be self-taught if needed).
- Familiarity with the Atlassian Forge platform and its development environment will be beneficial.

Expected outcomes/deliverables:

A fully functional Forge app deployed on the Atlassian platform.

- Well-documented source code and technical documentation.
- A live demonstration of the app's core functionalities.
- A report outlining the design process, development challenges, and solution implementation.
- A user guide and testing artifacts.