

Final Project - Part A: Create Epics and Stories

Estimated time needed: 25 minutes

In this lab, you will create the Epic and user stories for the Tax Calculator project. You may use any Kanban board that you have previously signed up for during this course. Alternatively, you may use a spreadsheet or any text editor to write the Epic and user stories.

Objectives

After completing this lab, you will be able to:

1. Create an Epic for modernizing the application.
2. Create several user stories for the epic.

Task 1: Create an Epic

Log back into your Kanban Board and create an Epic for the upcoming enhancements.

An Epic is a large and high-level item of work that provides a way to capture and communicate the broader goal of a project. They are too complex to be estimated accurately at the outset, so they are often broken down into smaller, more manageable user stories or features.

Epic Title: Modernise Tax Calculator

Epic Description: The Tax Calculator currently runs as a manually deployed static application and lacks a robust pipeline in place. This epic focuses on modernizing the application to deploy it on IBM Cloud¹. But the web application will not just be simply lifted and shifted to cloud. The application will be containerized using Docker container². The deployment will be managed through a pipeline, which will also ensure that all unit tests pass⁴ before deployment.

The following hints will help you create relevant user stories in the next Task:

1. Deploying on IBM Cloud
2. Containerizing the application
3. Creating pipeline for packaging the application
4. Running unit tests as part of pipeline

Task 2: Create Stories

Create following user stories in Kanban Board.

1. Containerizing the application
Description: To ensure that each unit of code performs as expected, run unit tests. And if the unit tests pass, deploy the application to a docker container.
2. Deploying on IBM Cloud
Description: Instead of hosting on self-managed or in-house virtual machines, deploy the application on IBM Cloud, using IBM Cloud Code Engine.
3. Creating a pipeline for packaging and deploying the application
Description: The current process of packaging and deploying involves too many manual steps. Use a Tekton pipeline to automate the build, test, and packaging stages of the application.

Conclusion

This lab equips you to modernize and automate the Tax Calculator deployment on IBM Cloud, streamlining the process and enhancing application efficiency and scalability.

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