

# Sprint 2 deliverable

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# Sprint goals

For the second sprint deliverable of semester 6, the following goals have been defined:





- Microservice message communication set up
  - | Notification and Email microservices
- Base CRUD operations for User, Project, Email, Notification and Content microservices
- Project invitation with a custom invite token, sent asynchronously as a message to the email service
- Initial authorization and roles
- Docker set up
  - | Routing all API's through a custom gateway
- API Gateway
  - | Custom api gateway using inbuilt algorithms for load balancing
- Setting up API communication and defining an output protocol for OpenAI's GPT-3 text model
- Azure Messaging, Azure Emails and Azure blob storage
- Migrating development from Github to Azure

# Sprint achievements

This sprint has been very productive and a lot has been achieved. Most of the necessary requirements have been covered or will be covered by the next sprint.

First, a breakdown of all of the functional tasks achieved this sprint:

## ***Azure sprint board***

 Copycloud Individual Project Sem 6 Te...   

Taskboard


Backlog


Capacity

Analytics


|


+ New Work Item


 Column Options


 Expand all


To Do


 Project service initial versioning and models


 MongoDB Initial clusters for Userservice and contentserivce


 Project Invitation Db Setup


 Project Db Setup


 Project invitation and accepting


 CRUD for projects


 ChatGPT API set up


 User invitation token


 CRUD for users


 Initial email service set up

 Adding content into project

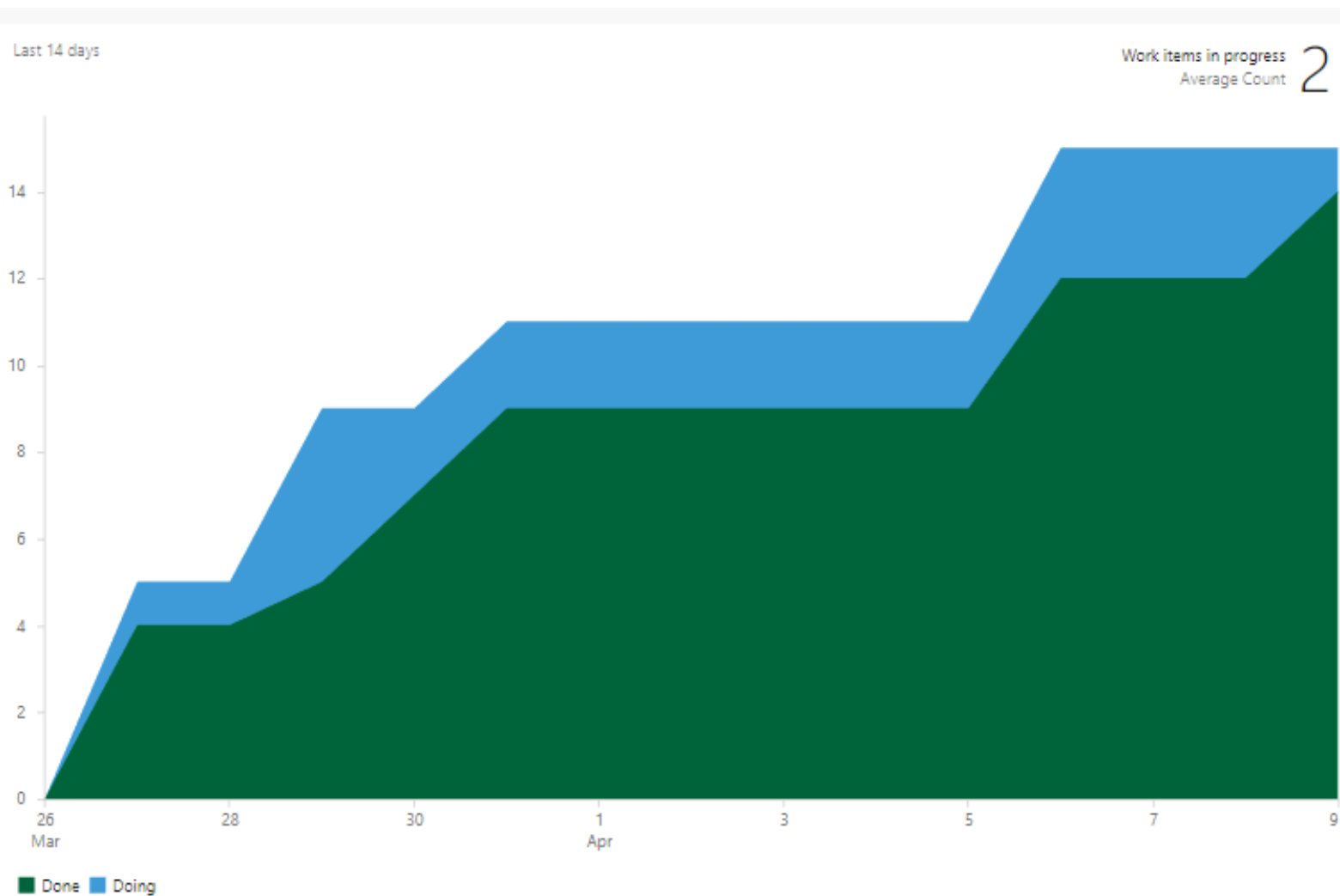
 Log-in and Register with Firebase - Userservice

 Azure service bus queue set up

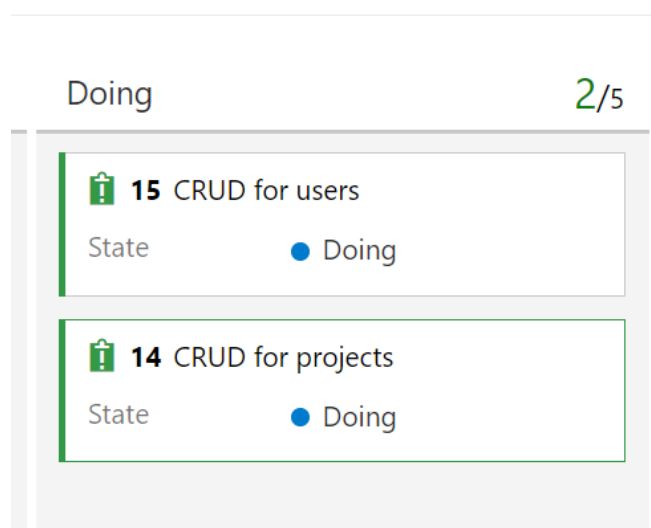
 Authentication - Userservice

 Message object for all of the project invitation contents

Furthermore, a burndown chart of the last sprint workflow can be seen below. This is for the period of the 28th of March until the 9th of April:



The above diagram shows two work items left in the progress. These are the completion of the CRUD operations of two of the microservices (as seen below):



All of the above mentioned sprint goals have been completed and can be seen in the Azure dev ops board here (or as a zip in the submission section)

Furthermore, the following documentation has been submitted in the portfolio section:

- Architecture design v2 document
- Cloud services document
- Distributed data report
- Reading guide v2 document
- Security plan

The link to the azure board can be found here:

[Project repo](#)

(if the link above does not work, a zip of the project can be found in the portfolio section or the sprint delivery section)