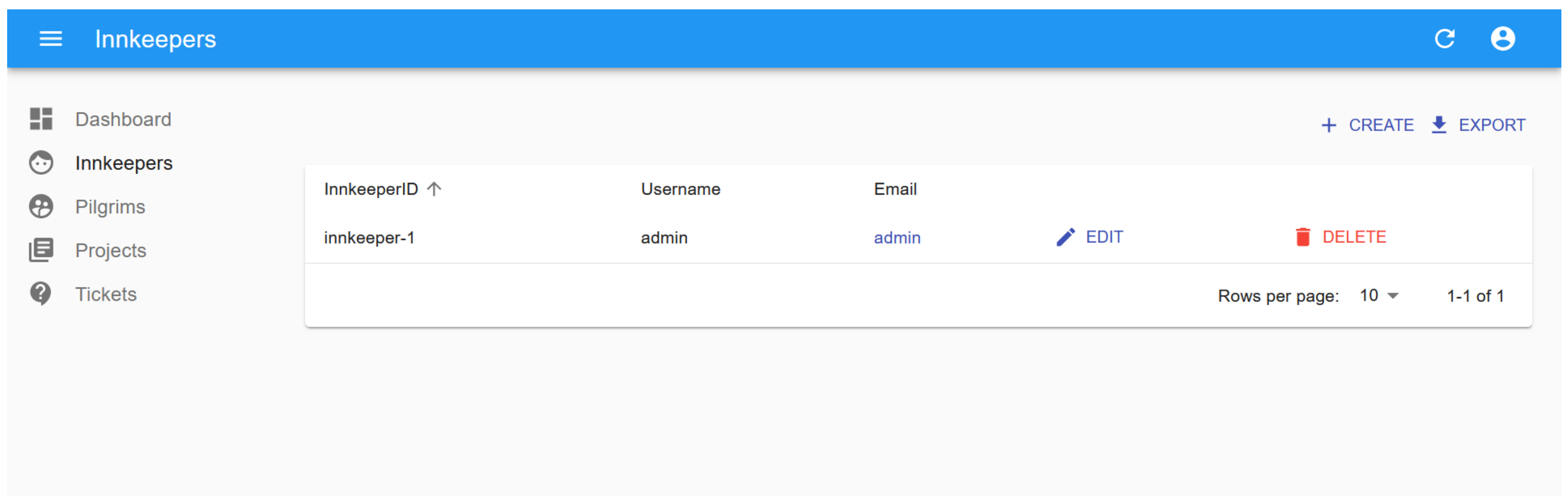


# KUBEINN

## A Cloud Container Service Platform

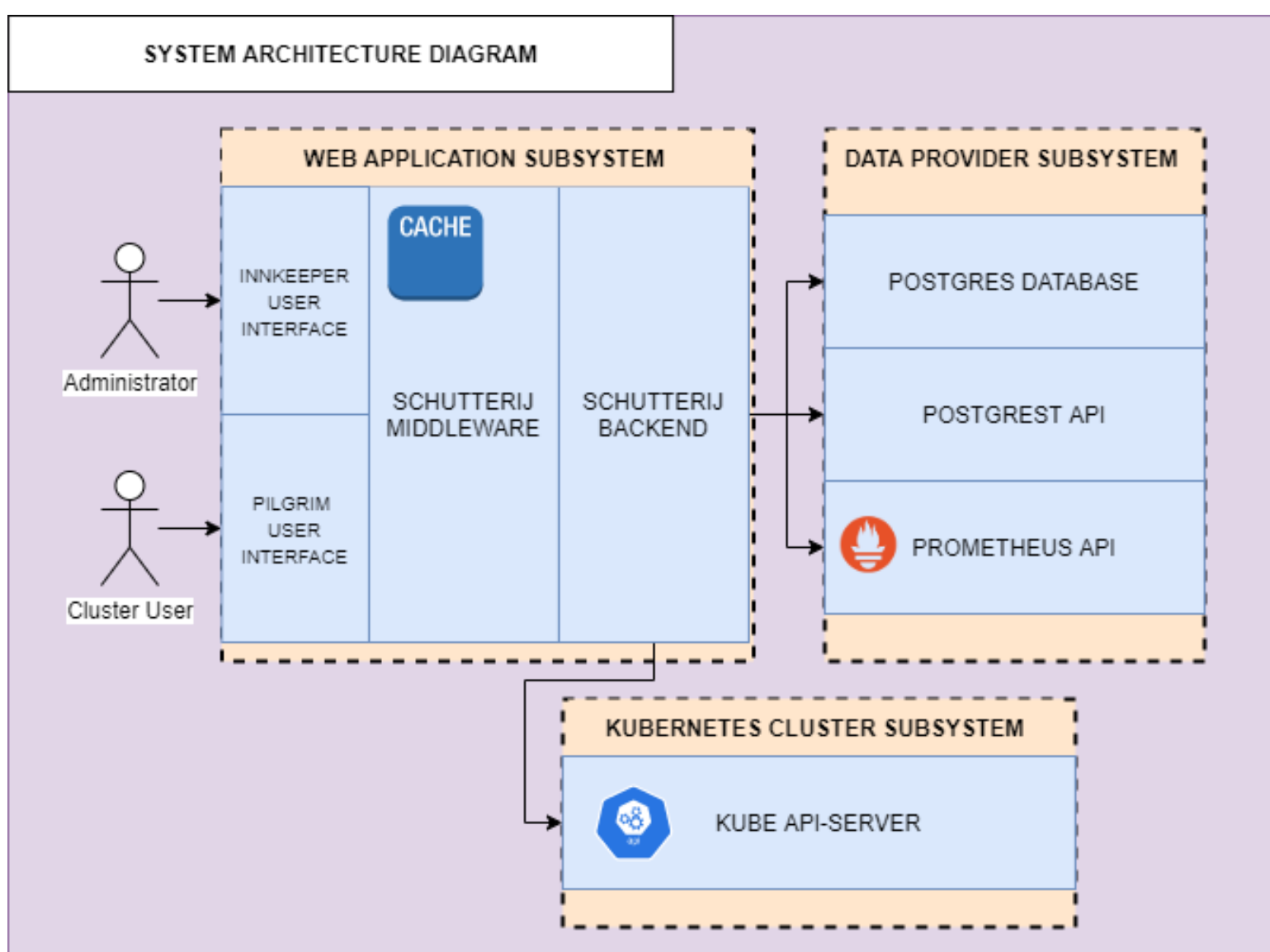
Student: Tan Chye Hong, Jordan

Supervisor: Assoc Professor Lee Bu Sung, Francis



### Project Objective:

KUBEINN is a web application-based cloud container service platform which aims to address the challenges of multi-tenancy in cloud container service offerings by enforcing secure isolation among tenants, promoting accountability of resource usage, and facilitating access to cluster resources. KUBEINN was developed in collaboration with our intended user, the Singapore Advanced Research and Education Network (SingAREN), as part of the Asi@Connect Research Platform.



### Features:

- Accounts & account users to represent tenants of a cluster
- Secure isolation between tenants
- Authentication and authorization using JSON Web Tokens (JWTs)
- Resource quotas for fair allocation
- Real-time accounting of resources consumed by workloads in cluster
- Ticketing service to raise issues