Plugin Architecture for The Massachusetts Open Cloud GUI (MOC)

TEAM MEMBERS:
DANA ALJAWDER, LAMA ALSUWAYAN, EVERETT CARSON, IGIBEK KOISHYBAYEV, HUNG VONG

PROJECT MENTOR:
JON BELL

EC 500-A1: Cloud Computing

Project Overview

- Plugin for MOC-UI
  - Allow external web apps to be integrated into MOC-UI
- HaaS
  - Test case: implement a web app to manage projects using HaaS
- Integration of HaaS app into MOC-UI

Previous Sprint

- Created HaaS APIs:
  - View All Nodes
  - View All Networks
- Integrated HaaS API calls into web app:
  - Show Node Details
  - Attach/Detach Nodes
  - View All Nodes/Networks
- Enahnced UI (Django templates, CSS & JavaScript)

Current Sprint

- Integrate HaaS API Calls:
  - Nodes:
    - (4) Add NIC/ Delete NIC [2.5]
    - (2) Power Cycle [1]
    - (2) Delete Node [3]
  - Headnode:
    - (4) Add/Delete HNIC [2.5]
    - Start/Stop Headnode
    - Delete Headnode
  - Networks:
    - (3) Create Network [13]

Current Sprint - Cont'd

- Refactor the app:
  - (13) Redesign Use Cases [8]
  - (13) File Structure and URLS [8]
  - (8) Forms and Tables [5]
  - (13) Redesign Node Details [30]

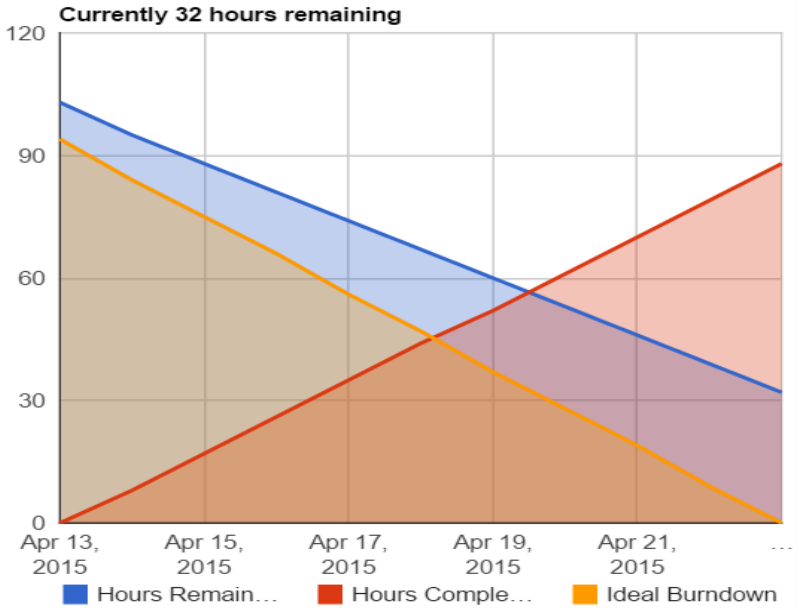
- (Stretch) Unit Testing for Previous Sprint Calls:
  - List All Projects
  - List All Networks
  - All Node

Current Sprint – Not Done

- Manage VLANS
- Manage HNIC Networks

Burndown

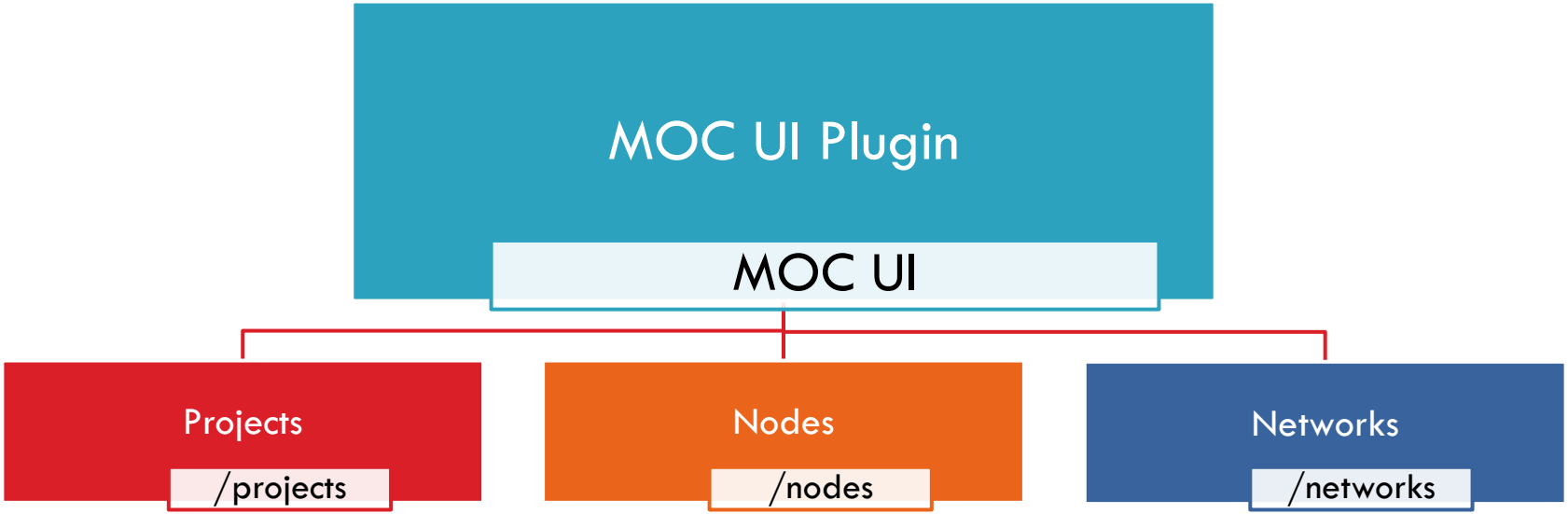
Burndown Chart



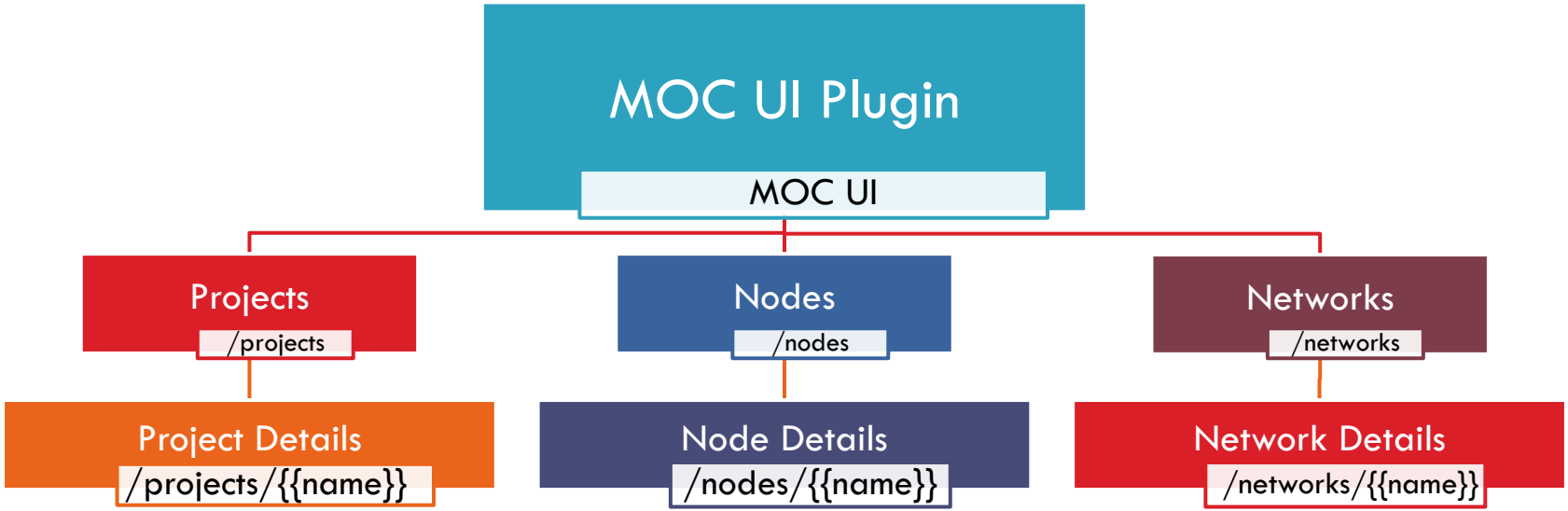
Summary stats

Total Cards:	24
Remaining Cards:	9
Done Cards:	15
Percent of cards done:	62%
Hours at start:	103 (edit)
Hours est total:	103
Hours remaining:	32
Hours done:	88
Percent of hours done:	68%
----	**----**
Days Elapsed	10
Daily Burndown	8.8
Est. Days Left	4
Est. Completion Date	04/27/15

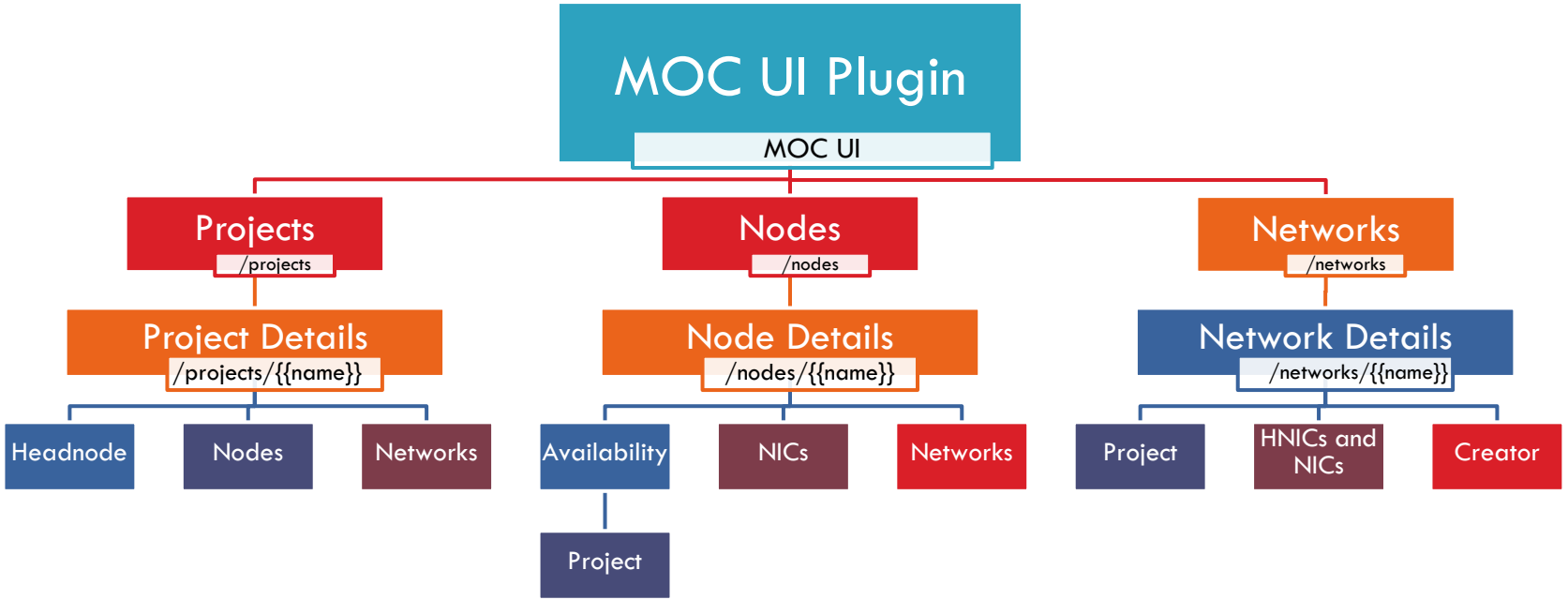
Refactoring – App Structure and URLS



Refactoring – App Structure and URLS

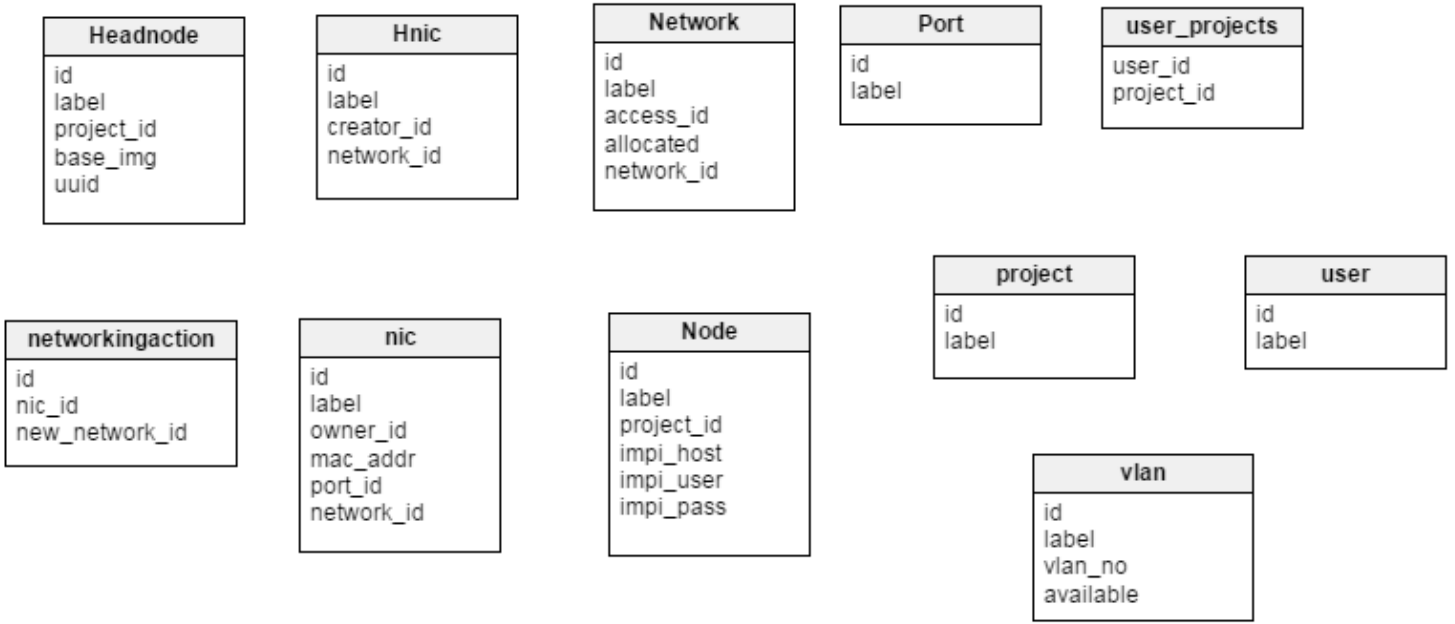


Refactoring – App Structure and URLS

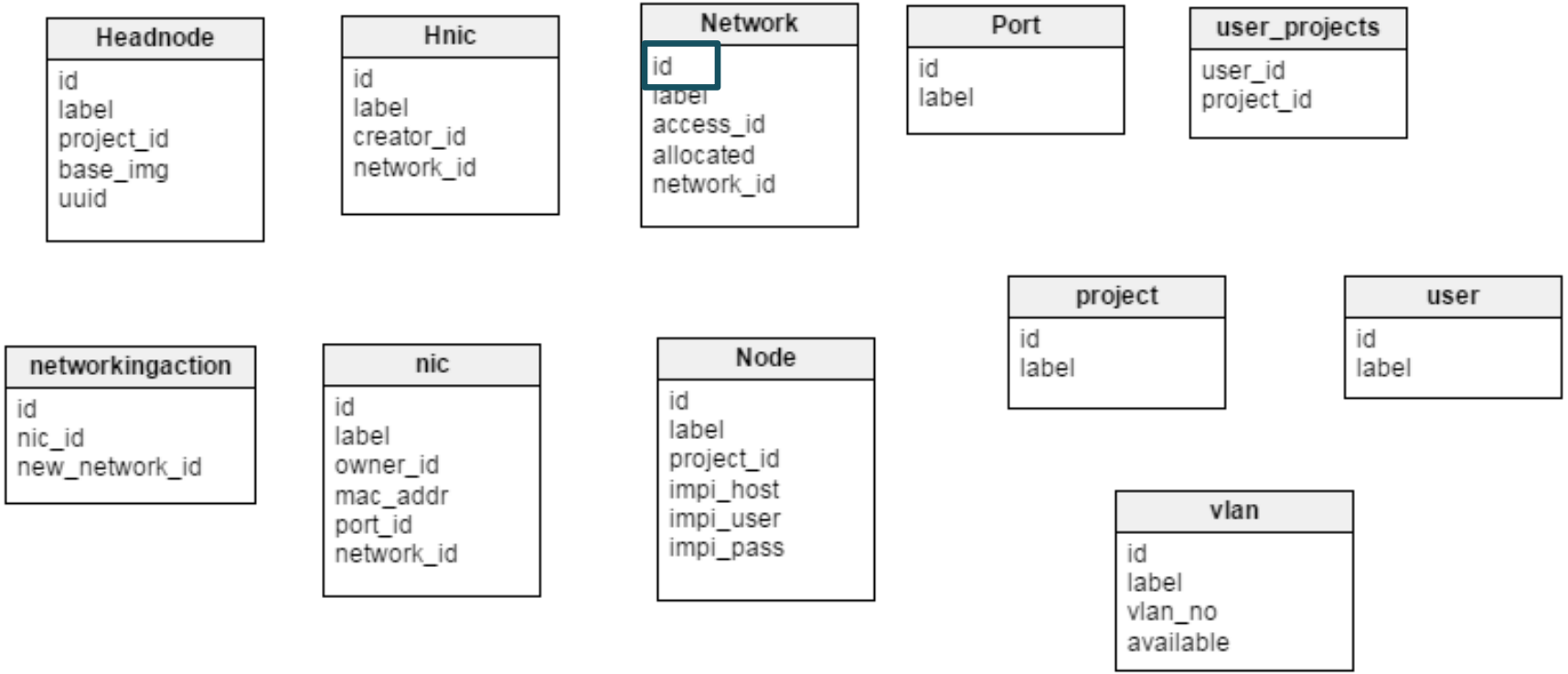


DEMO

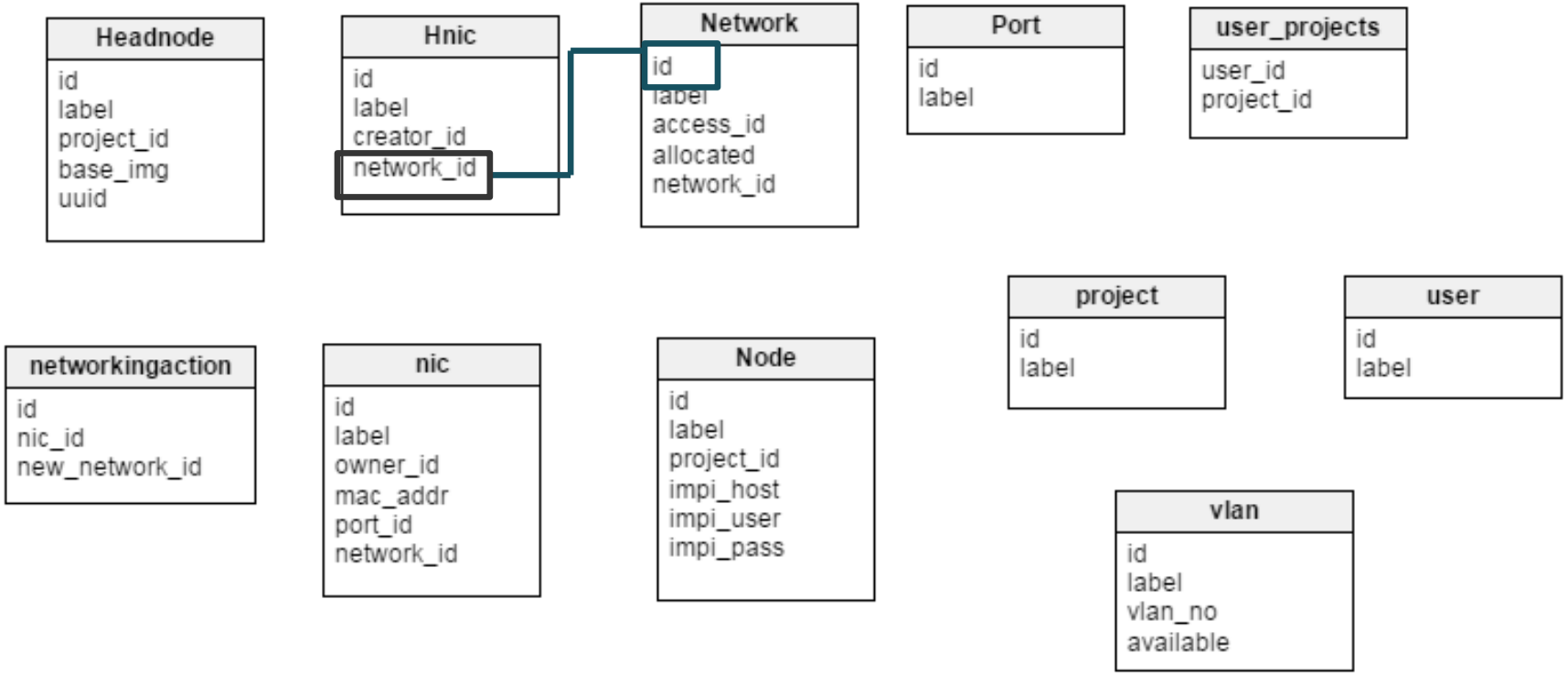
Challenges: HaaS Database Schema



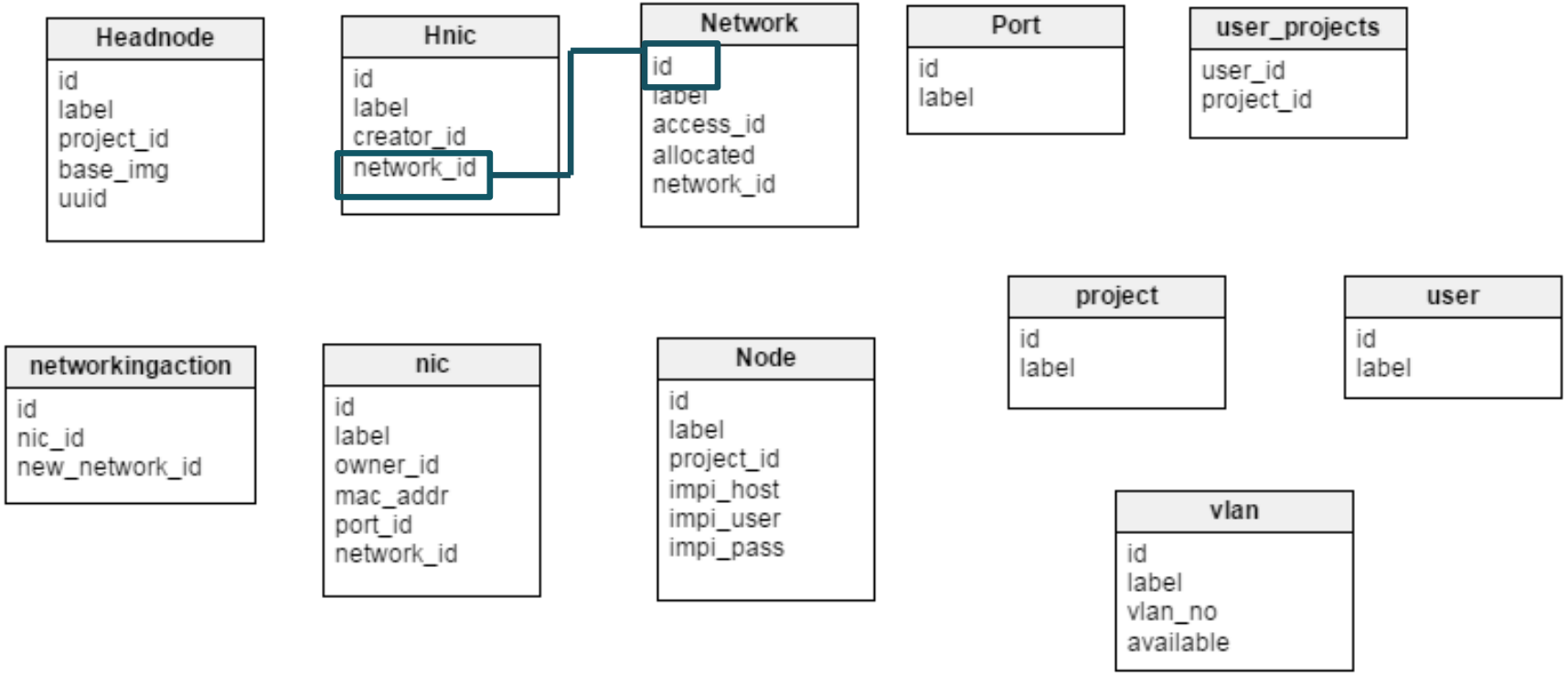
Challenges: HaaS Database Schema



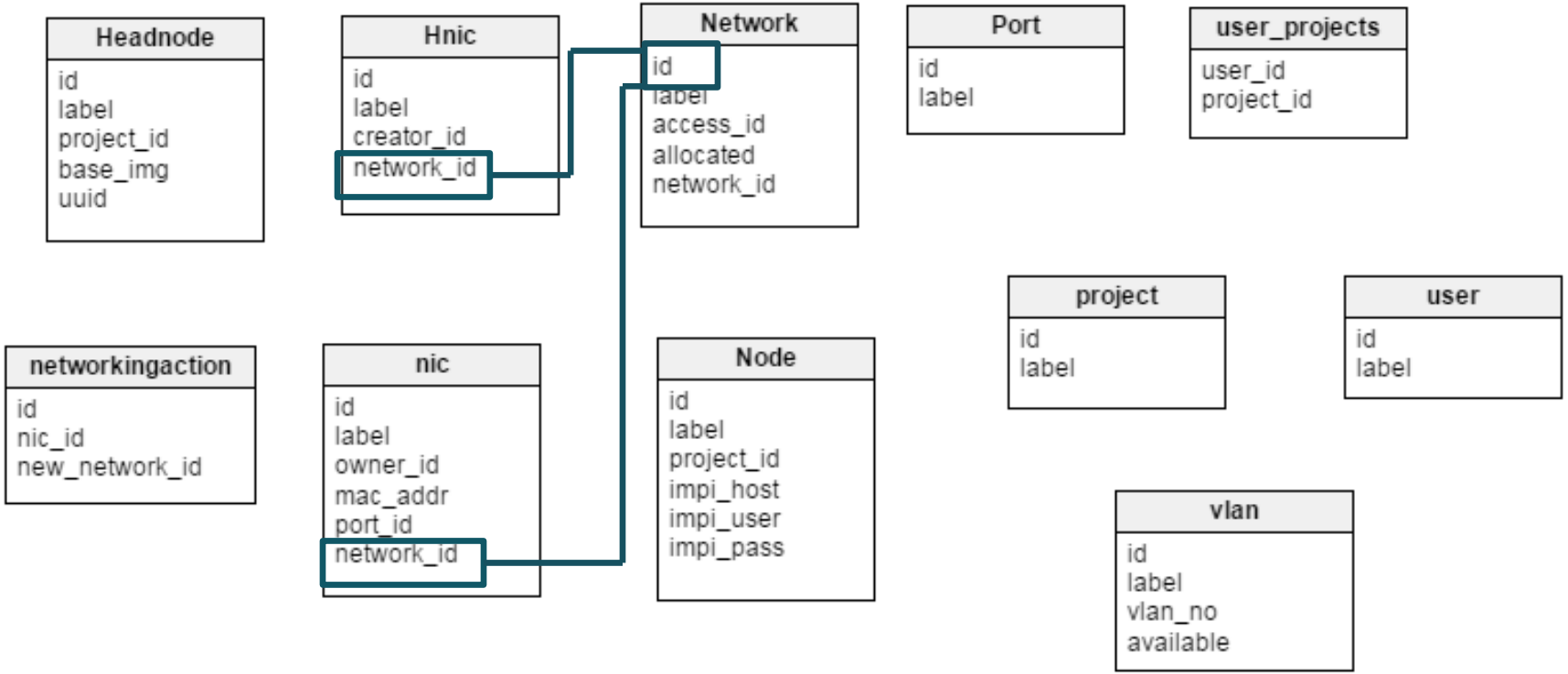
Challenges: HaaS Database Schema



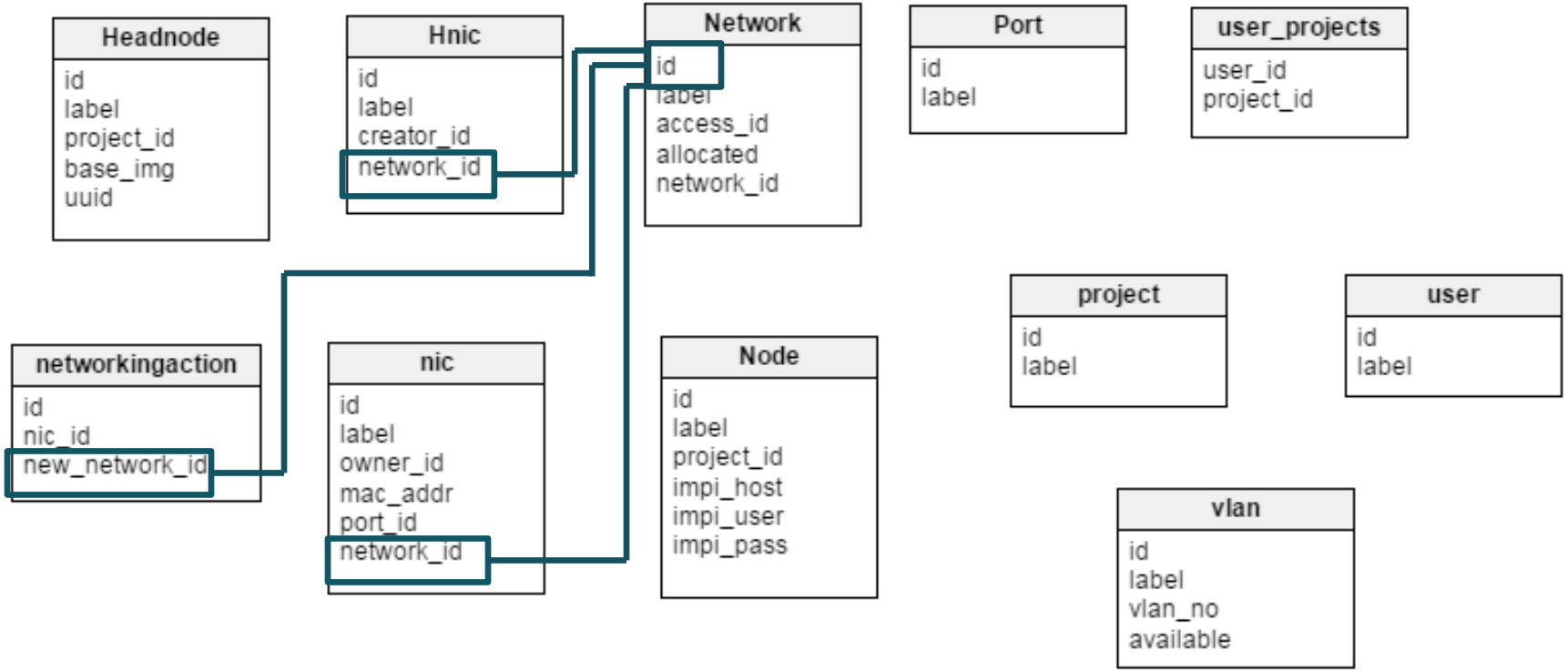
Challenges: HaaS Database Schema



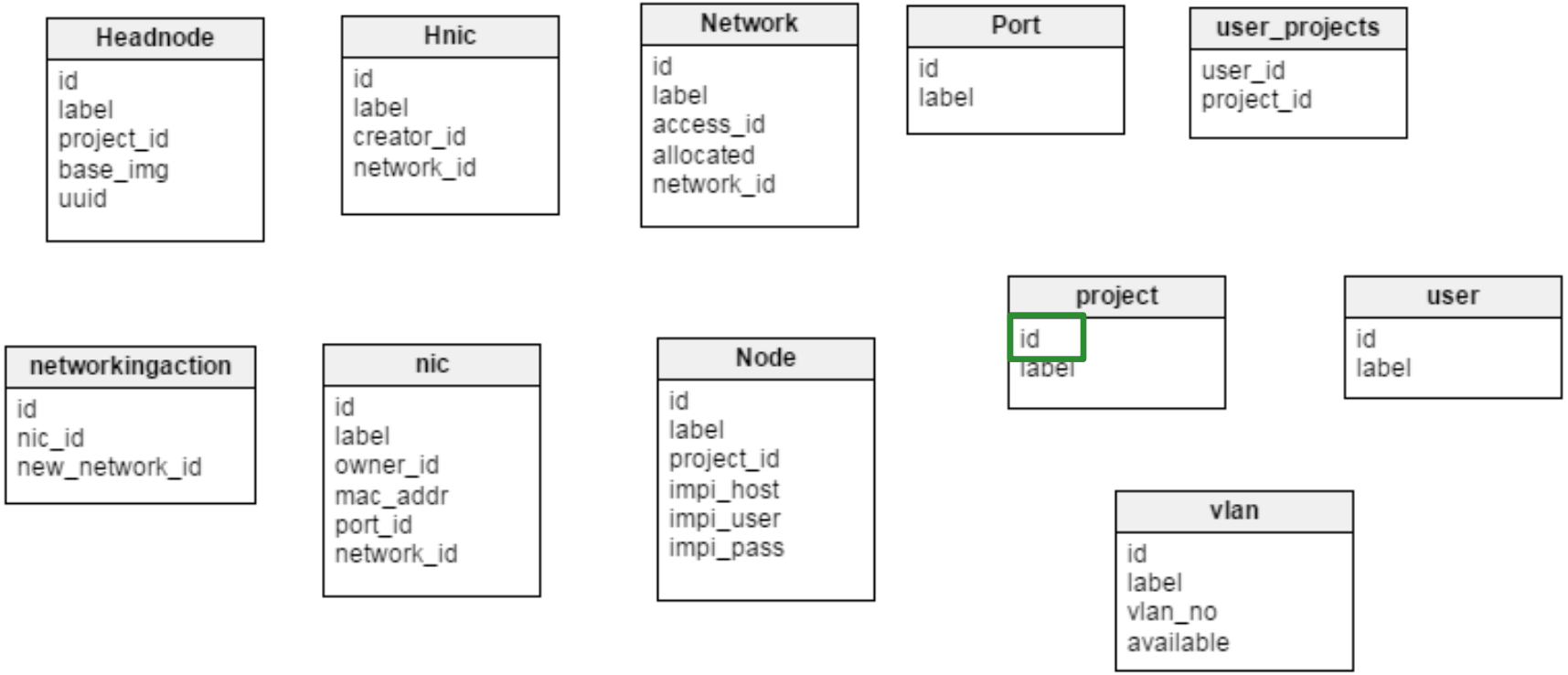
Challenges: HaaS Database Schema



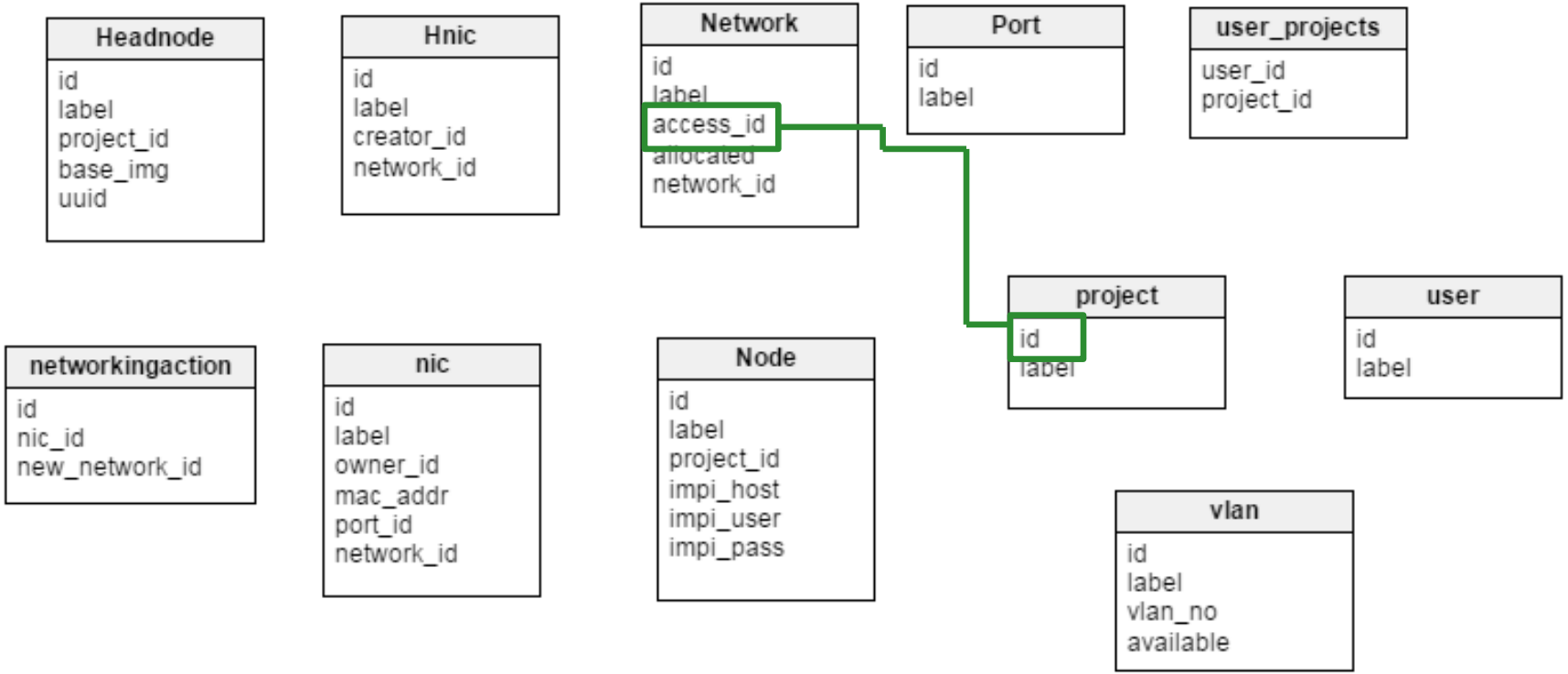
Challenges: HaaS Database Schema



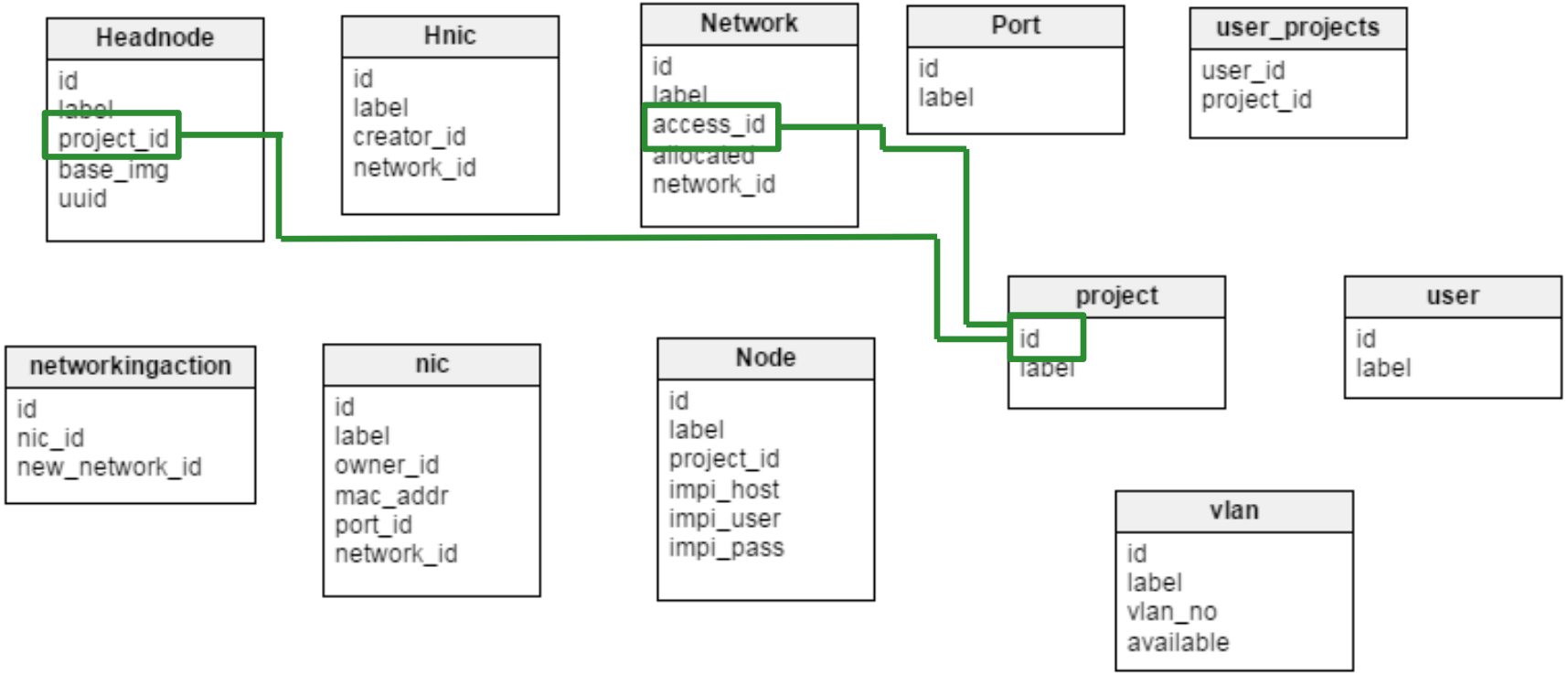
Challenges: HaaS Database Schema



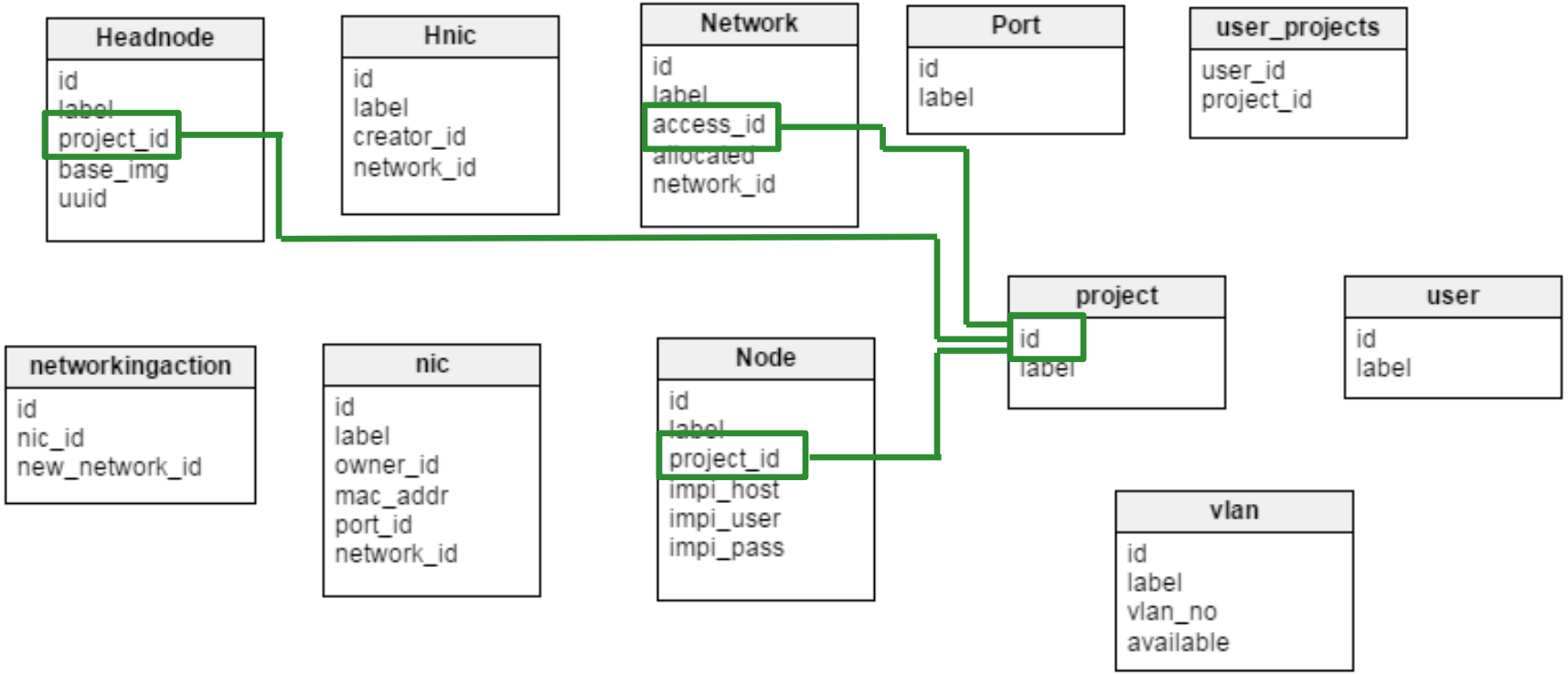
Challenges: HaaS Database Schema



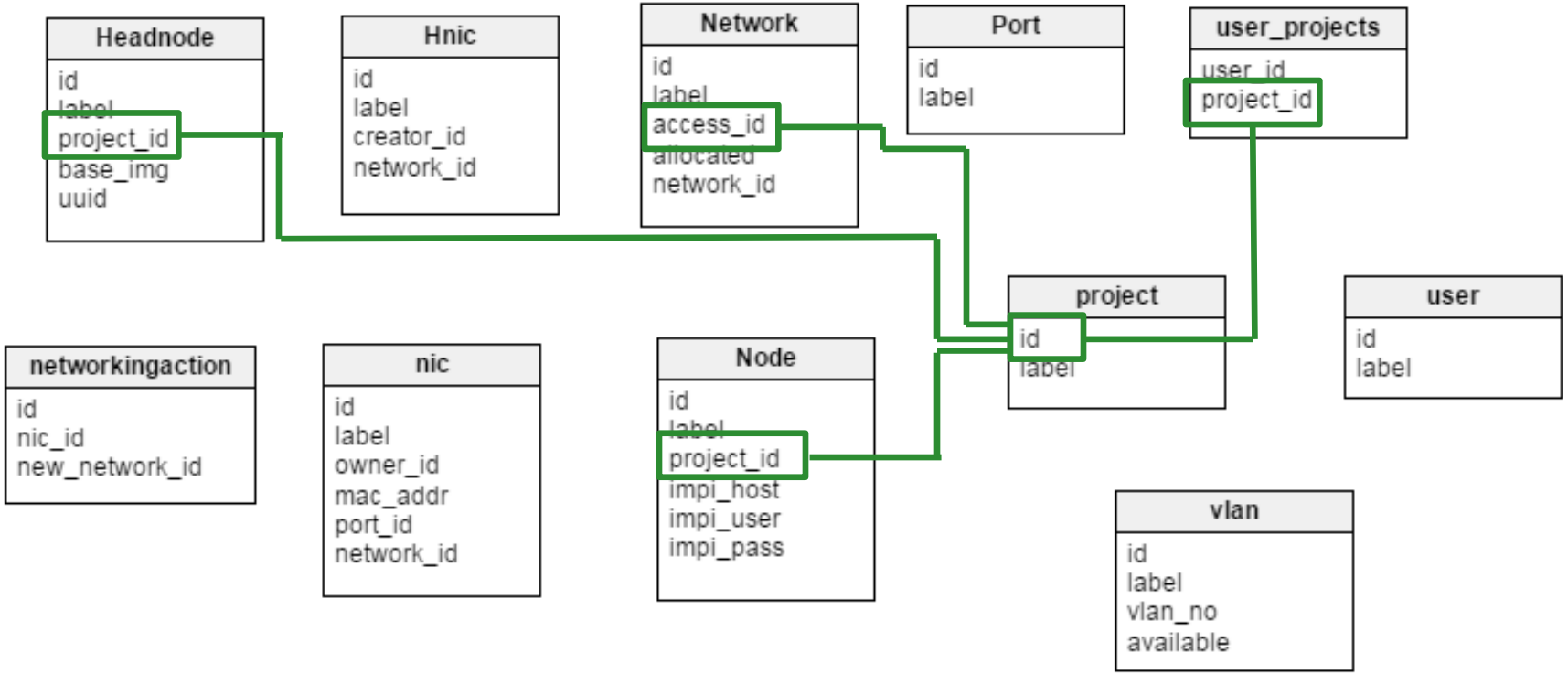
Challenges: HaaS Database Schema



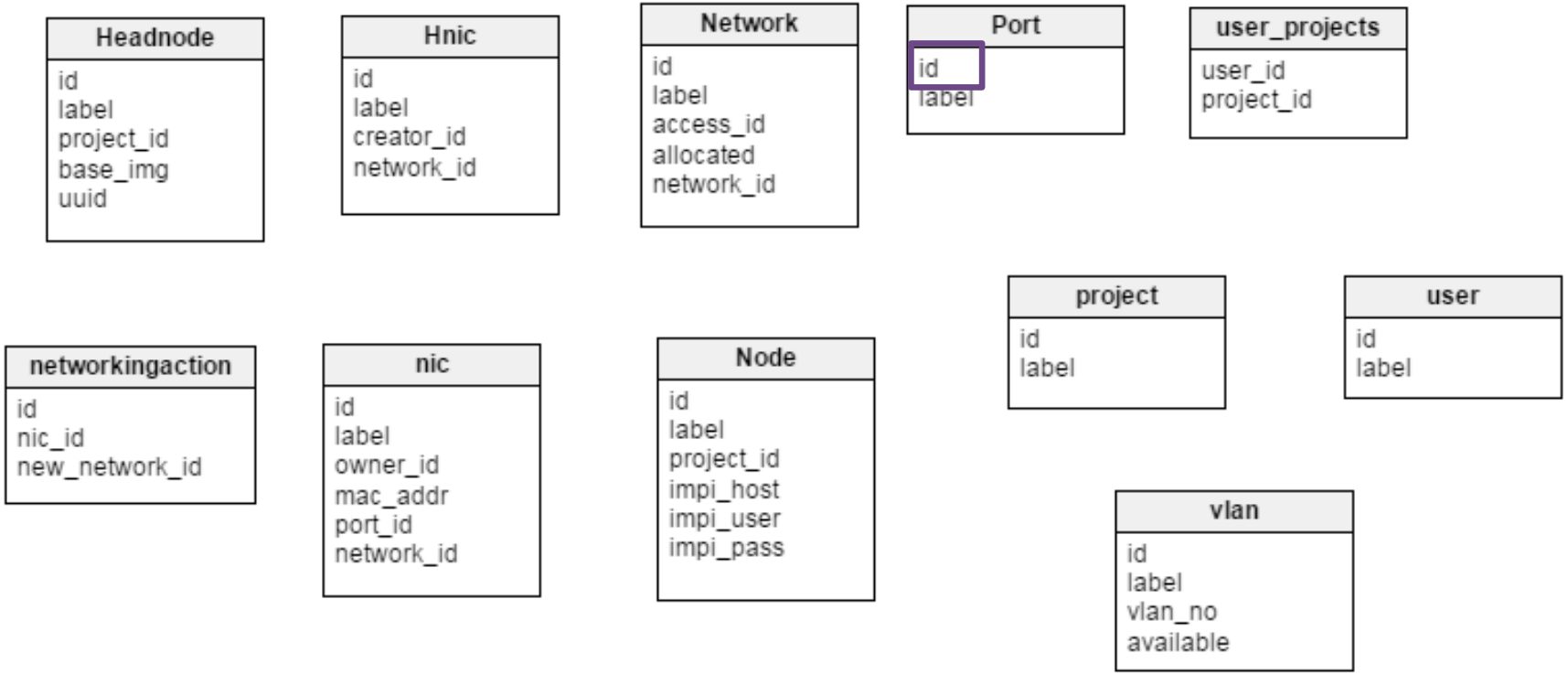
Challenges: HaaS Database Schema



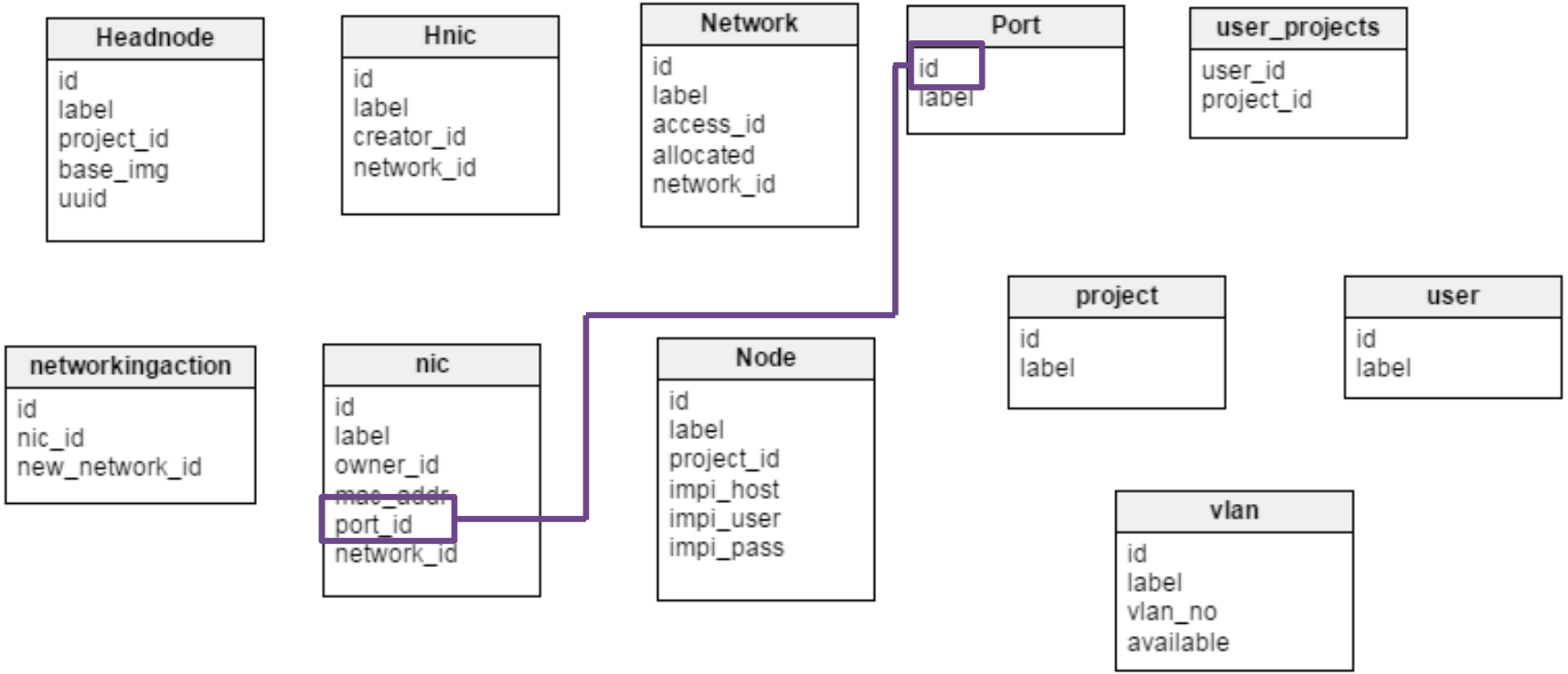
Challenges: HaaS Database Schema



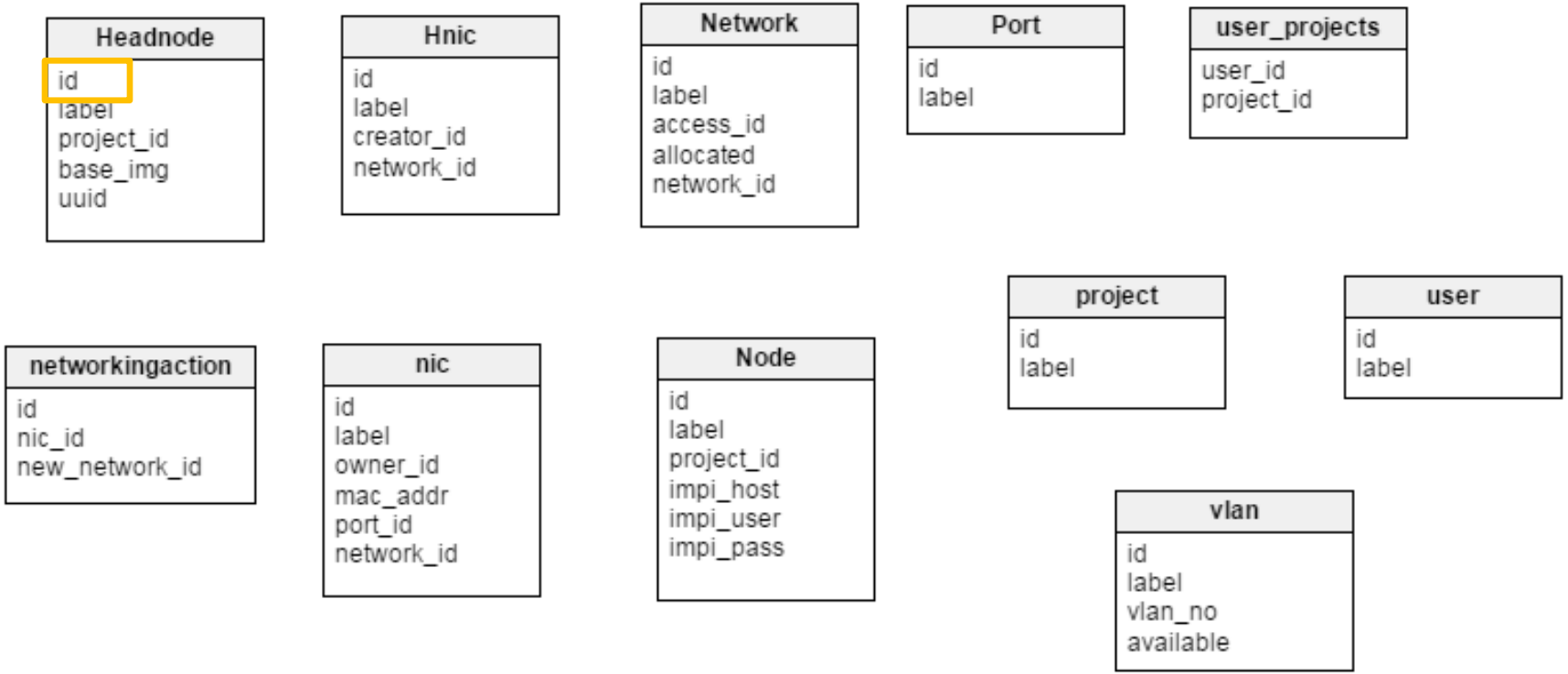
Challenges: HaaS Database Schema



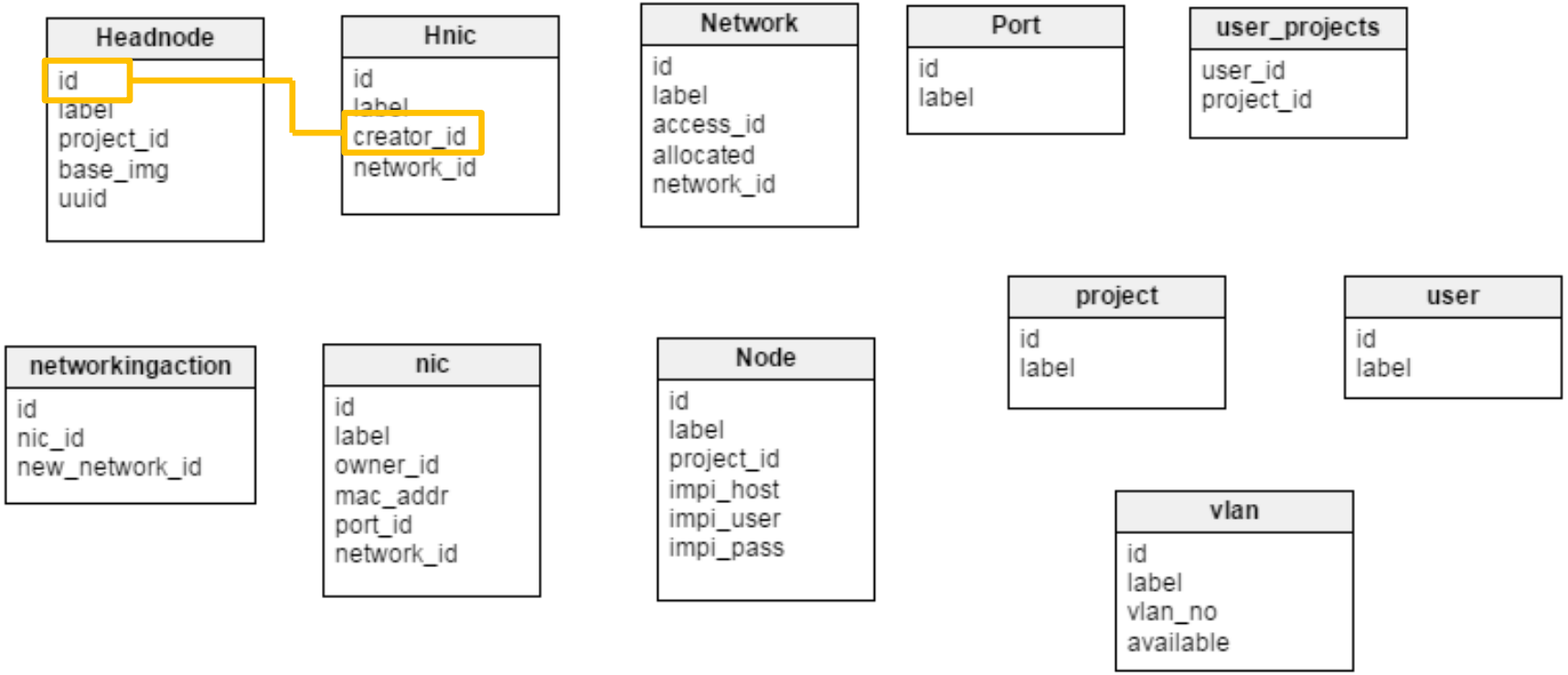
Challenges: HaaS Database Schema



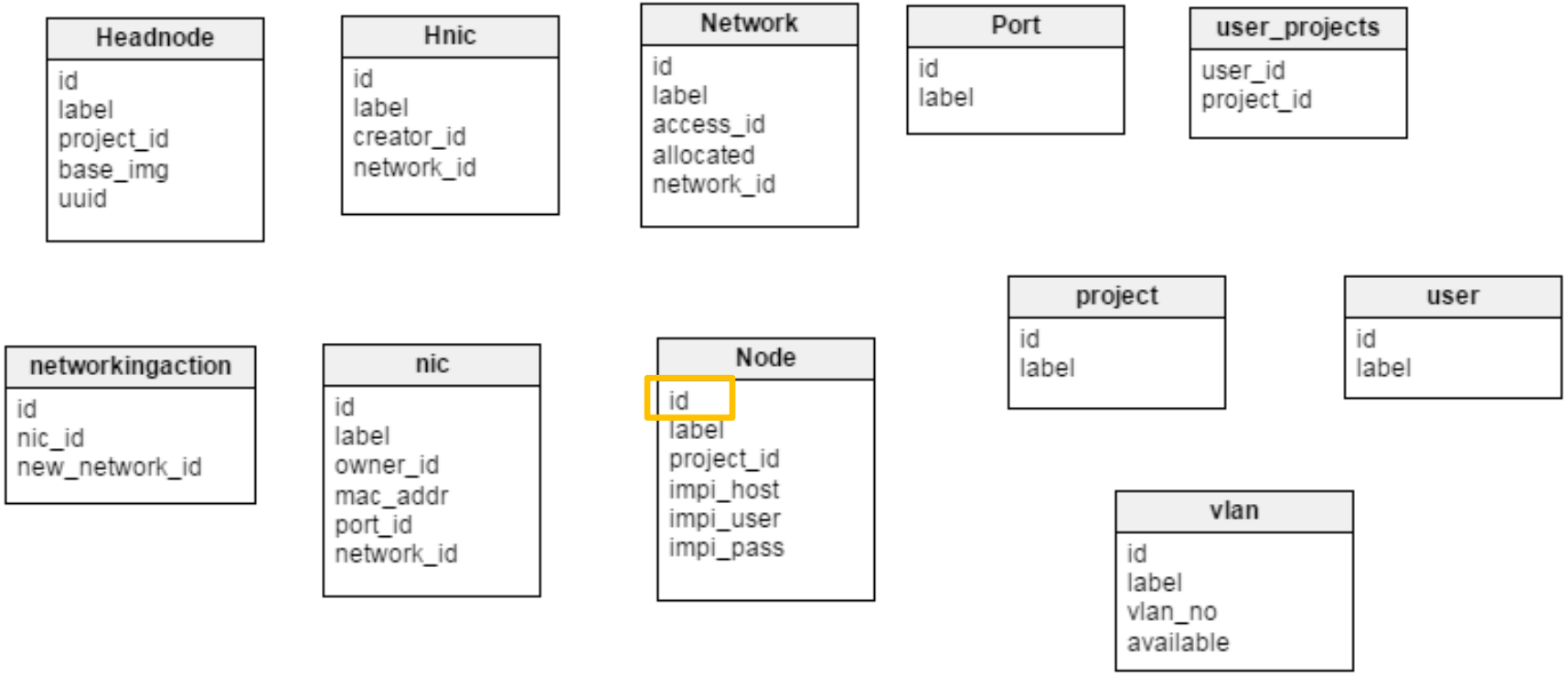
Challenges: HaaS Database Schema



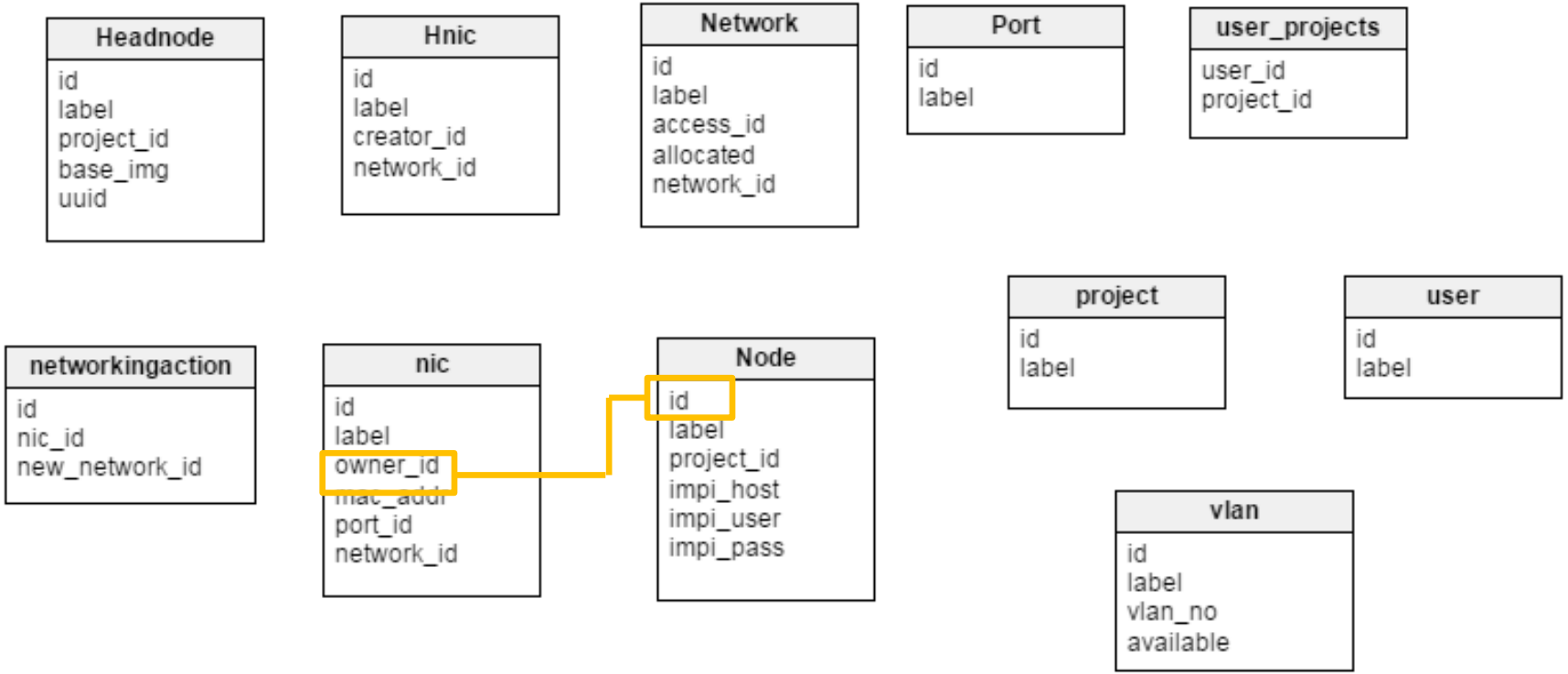
Challenges: HaaS Database Schema



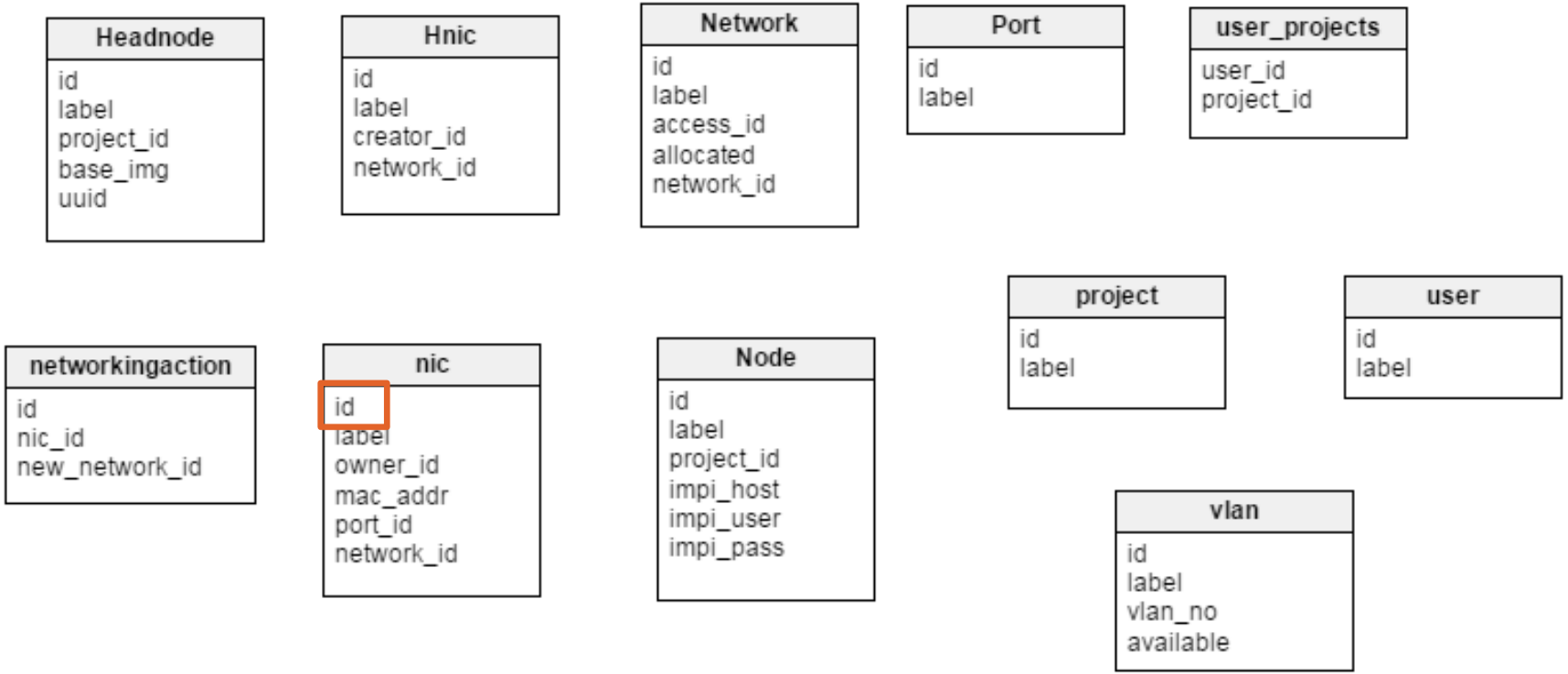
Challenges: HaaS Database Schema



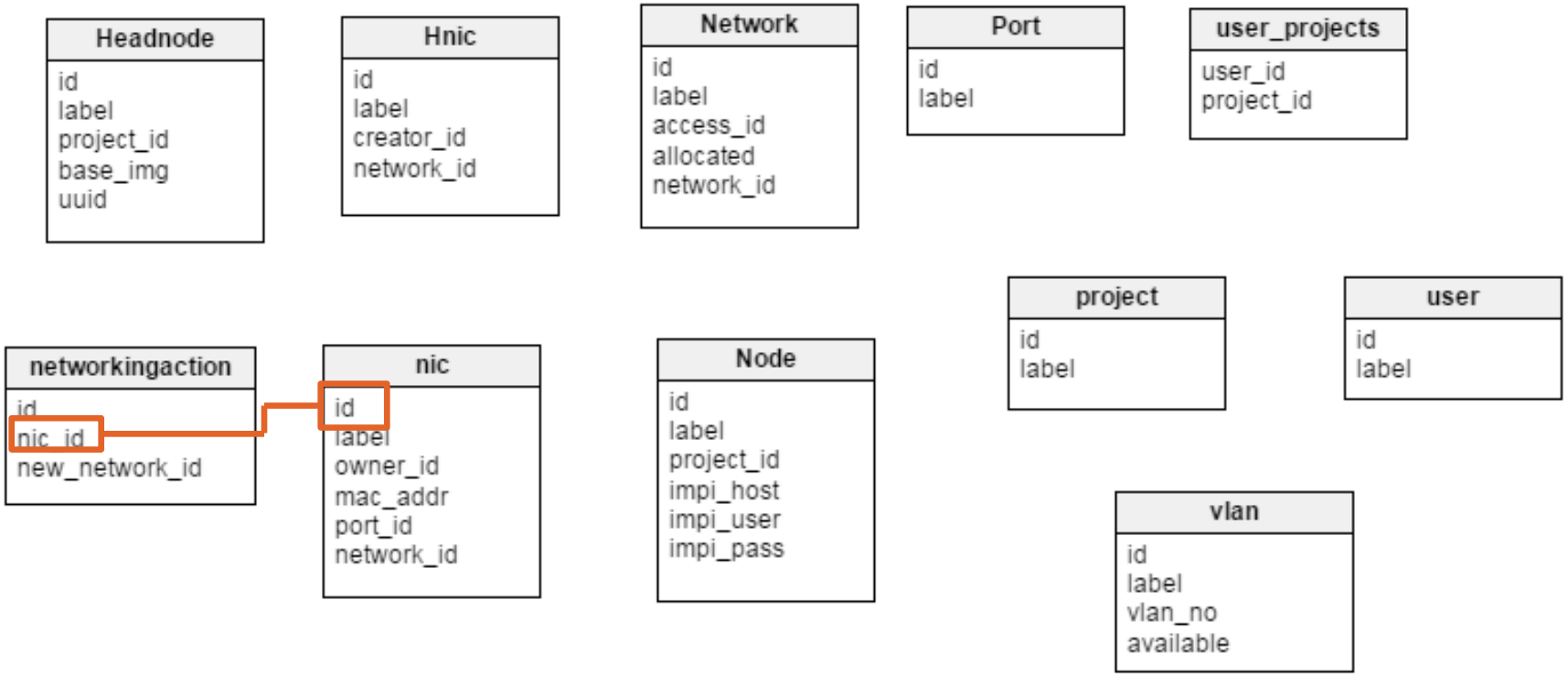
Challenges: HaaS Database Schema



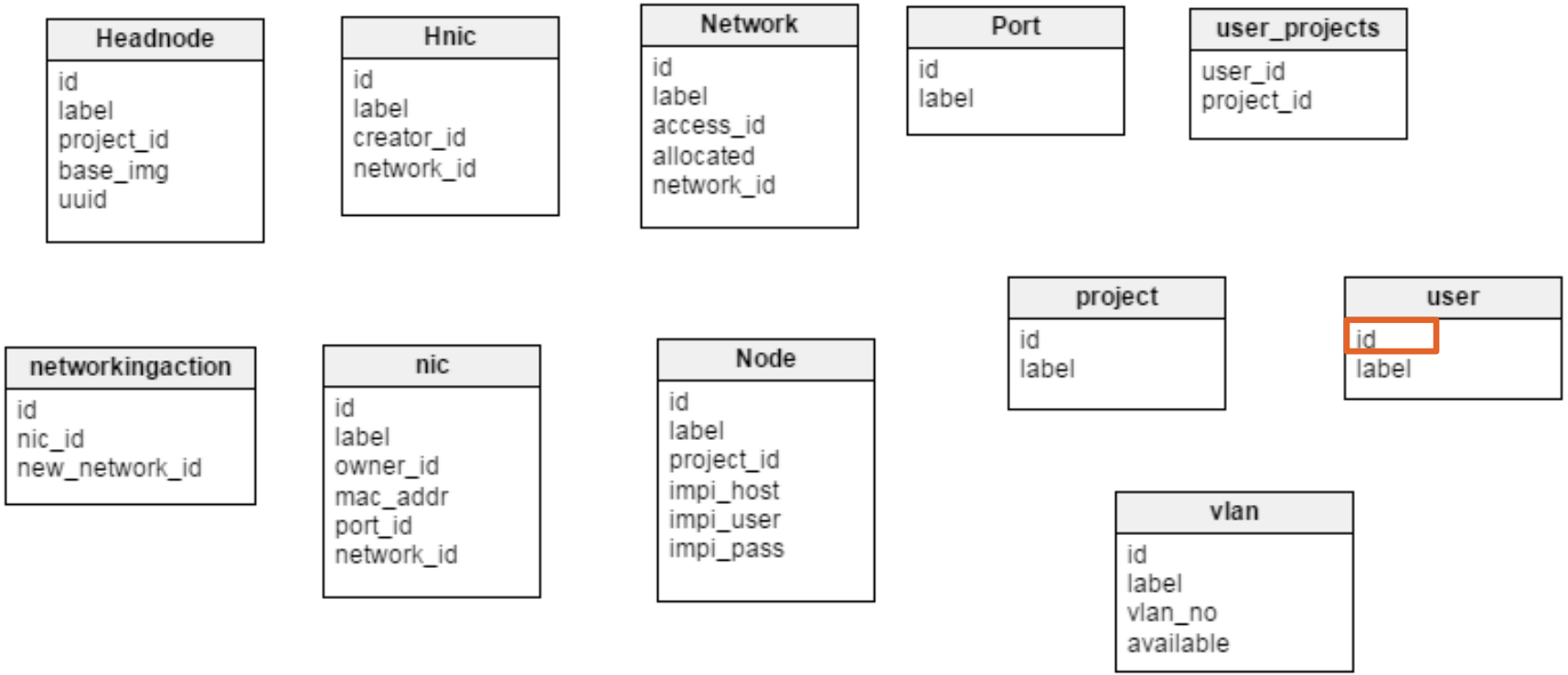
Challenges: HaaS Database Schema



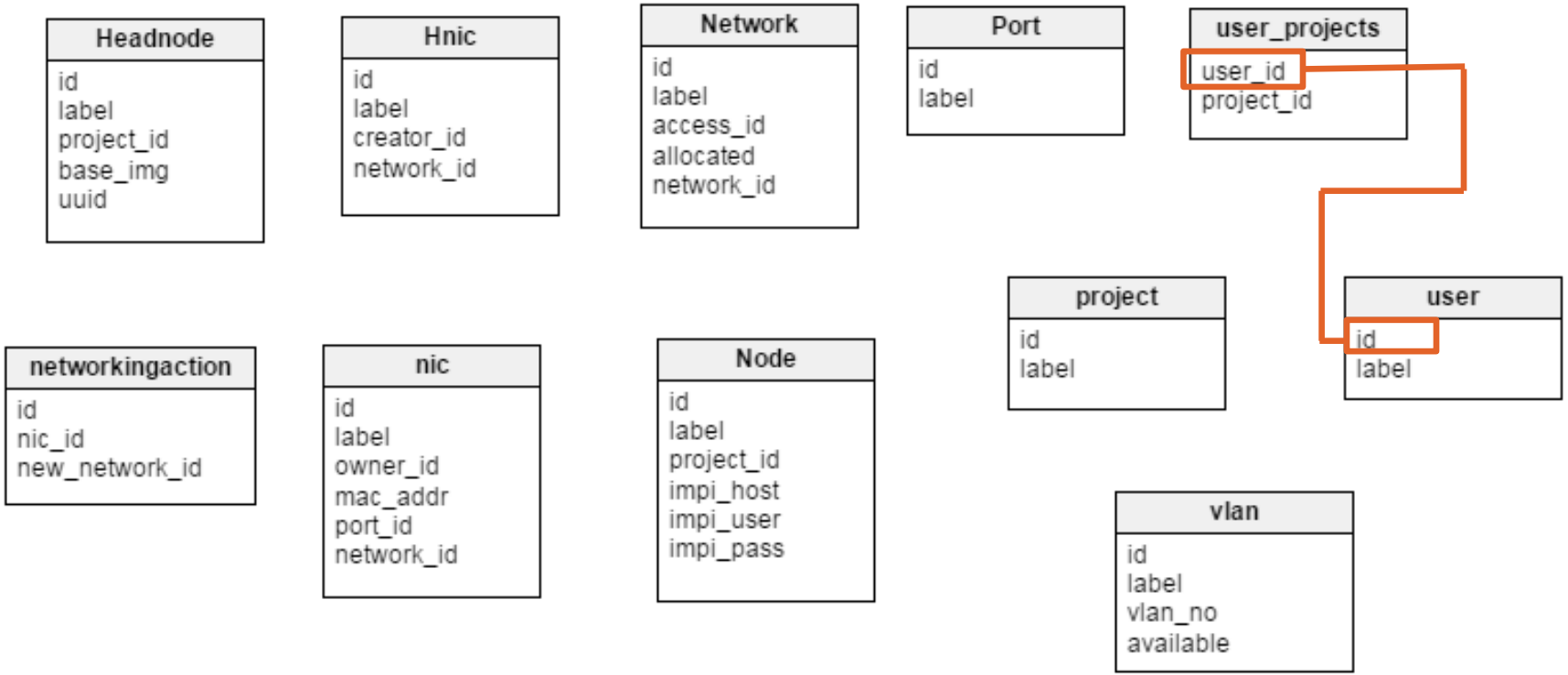
Challenges: HaaS Database Schema



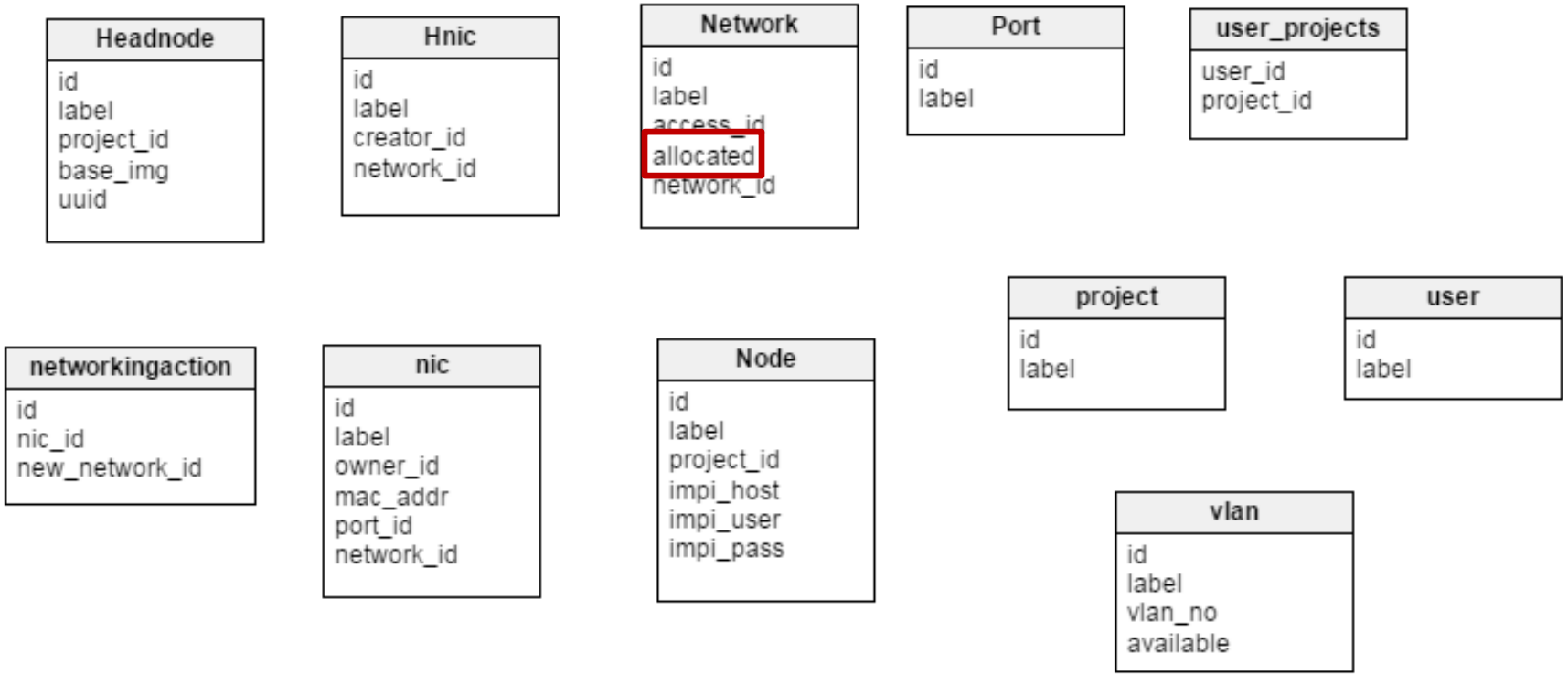
Challenges: HaaS Database Schema



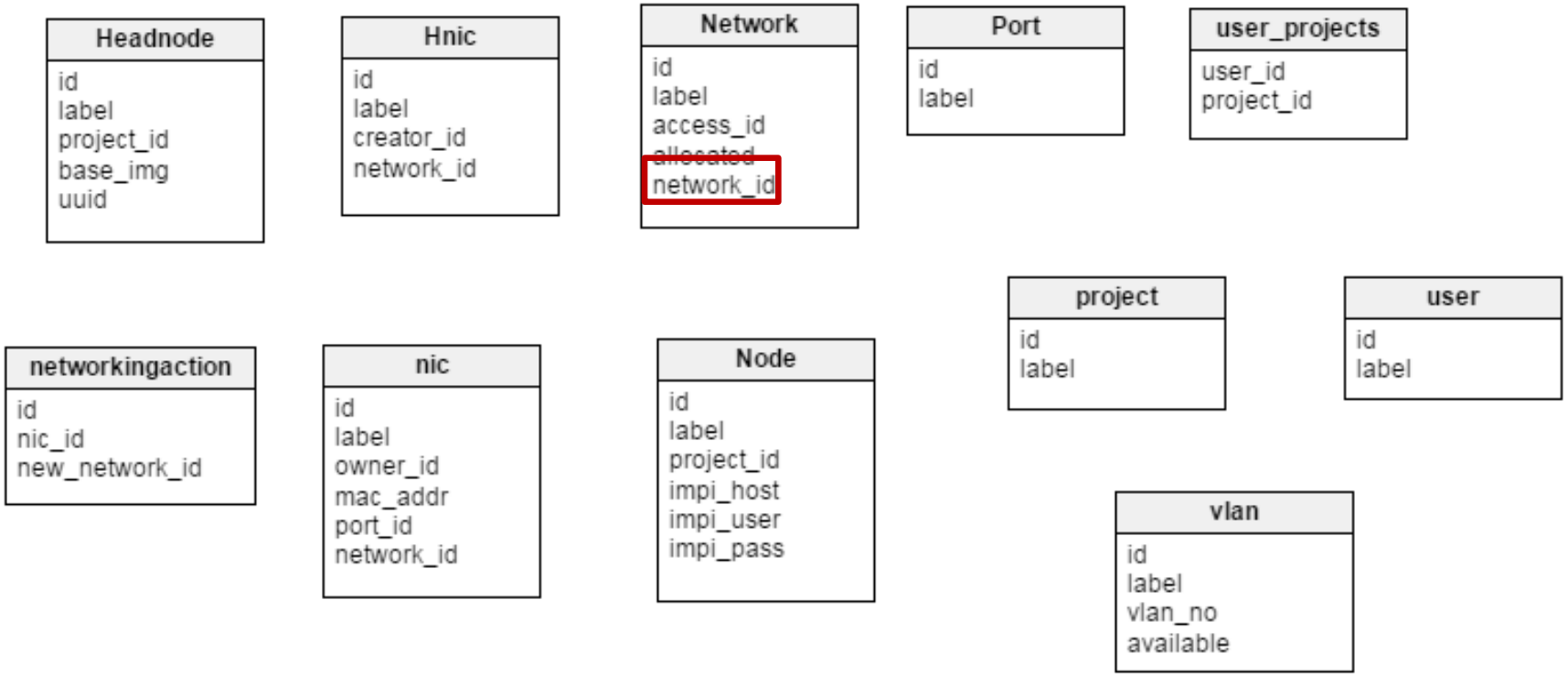
Challenges: HaaS Database Schema



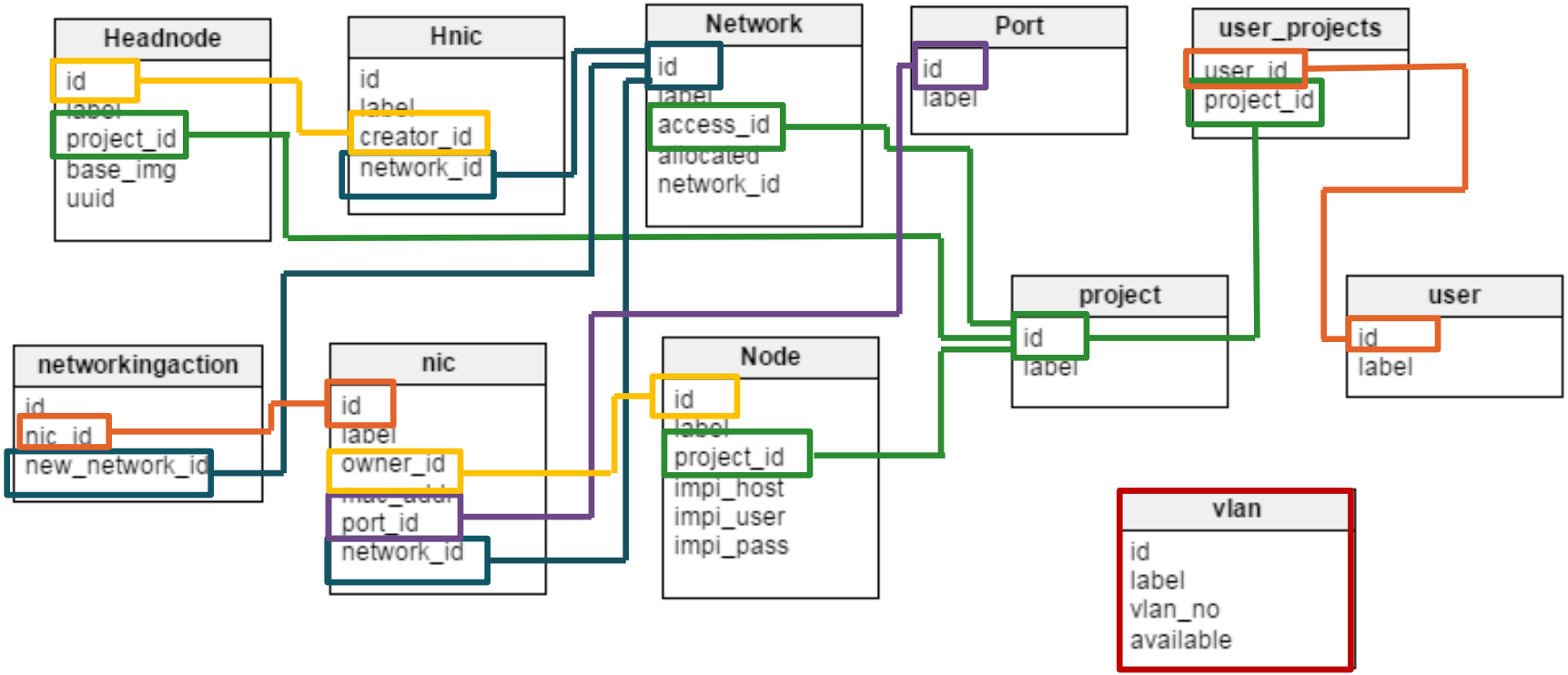
Challenges: HaaS Database Schema



Challenges: HaaS Database Schema



Challenges: HaaS Database Schema



Overall Status

- Initial Project Requirements Stretched
  - Initial: Integration of Existing Calls
  - Stretch: Writing new API calls

- Main Goal of Integration of iFrame Pushed Back as a Result

Q & A!