Platform development

Key concepts, install environment

Outline

Architecture overview

Key concepts (api & graph format)

Install development environment locally

(Hands-on exercise: Add an activation function)

Architecture overview

Two systems:

Model development + Deployment

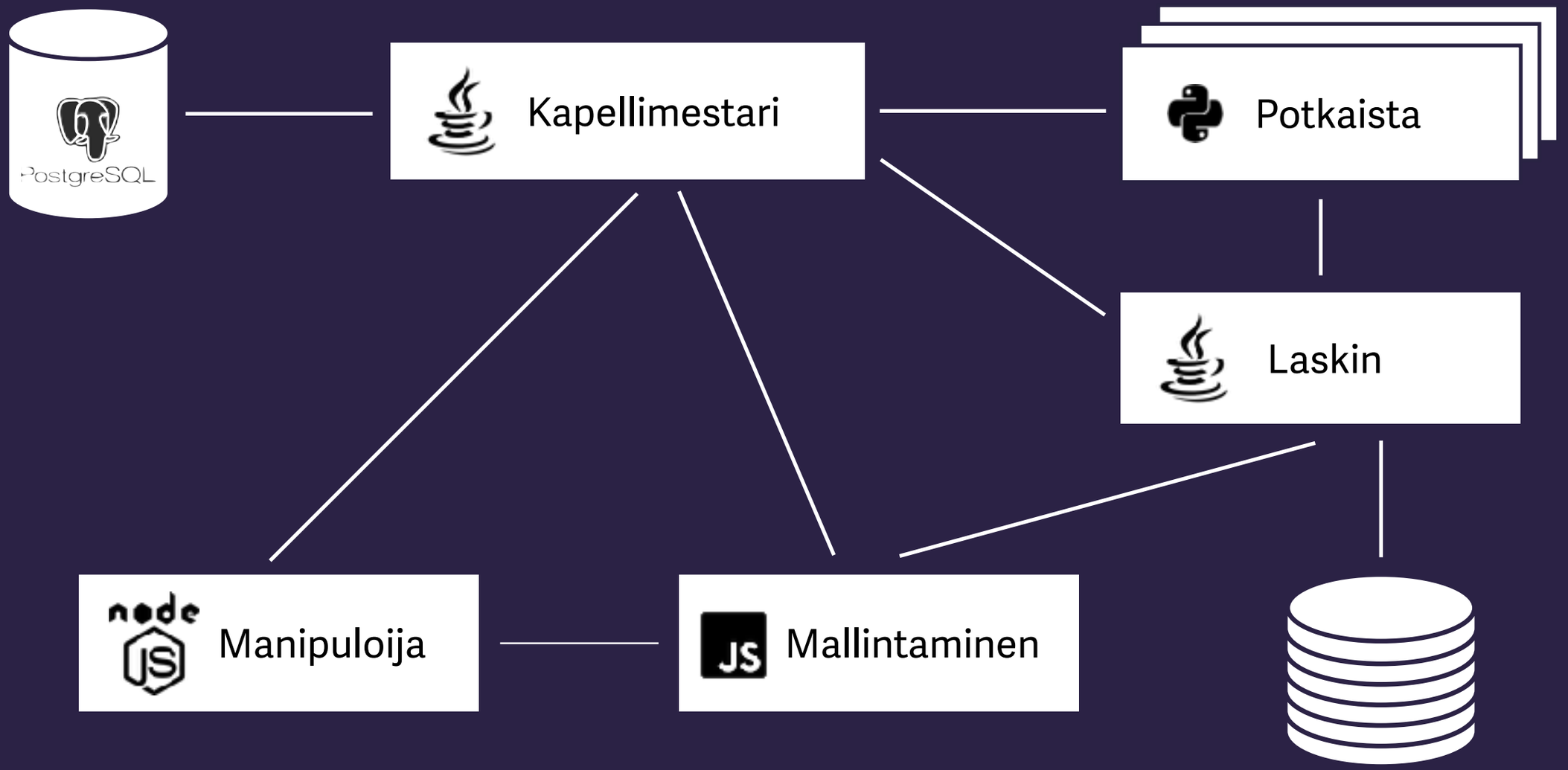
Different tasks

Different availability requirements

Need to be (fairly) separated systems

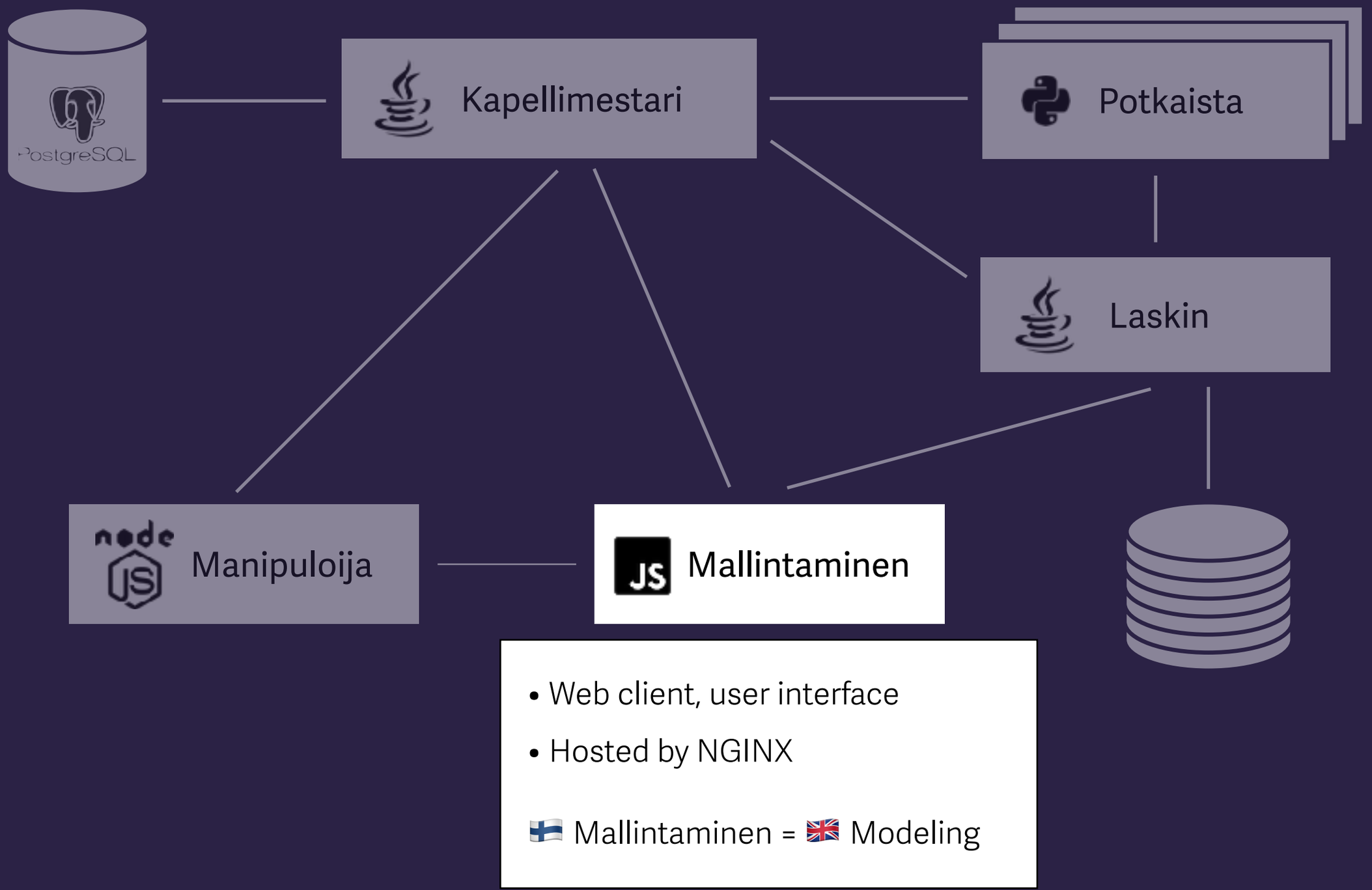
Model development

Server Architecture



Model development

Server Architecture

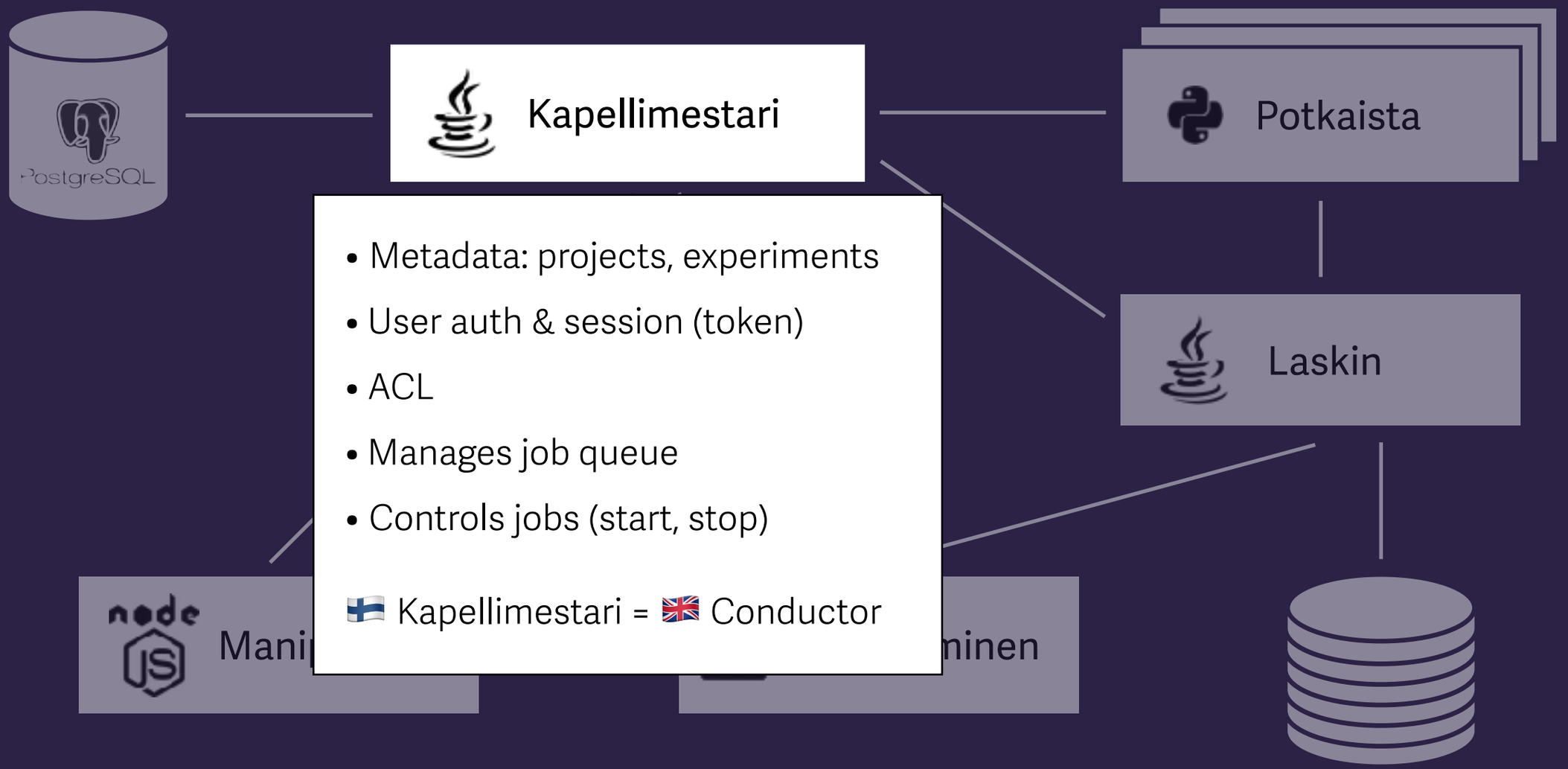


- Web client, user interface
- Hosted by NGINX

🇫🇮 Mallintaminen = 🇬🇧 Modeling

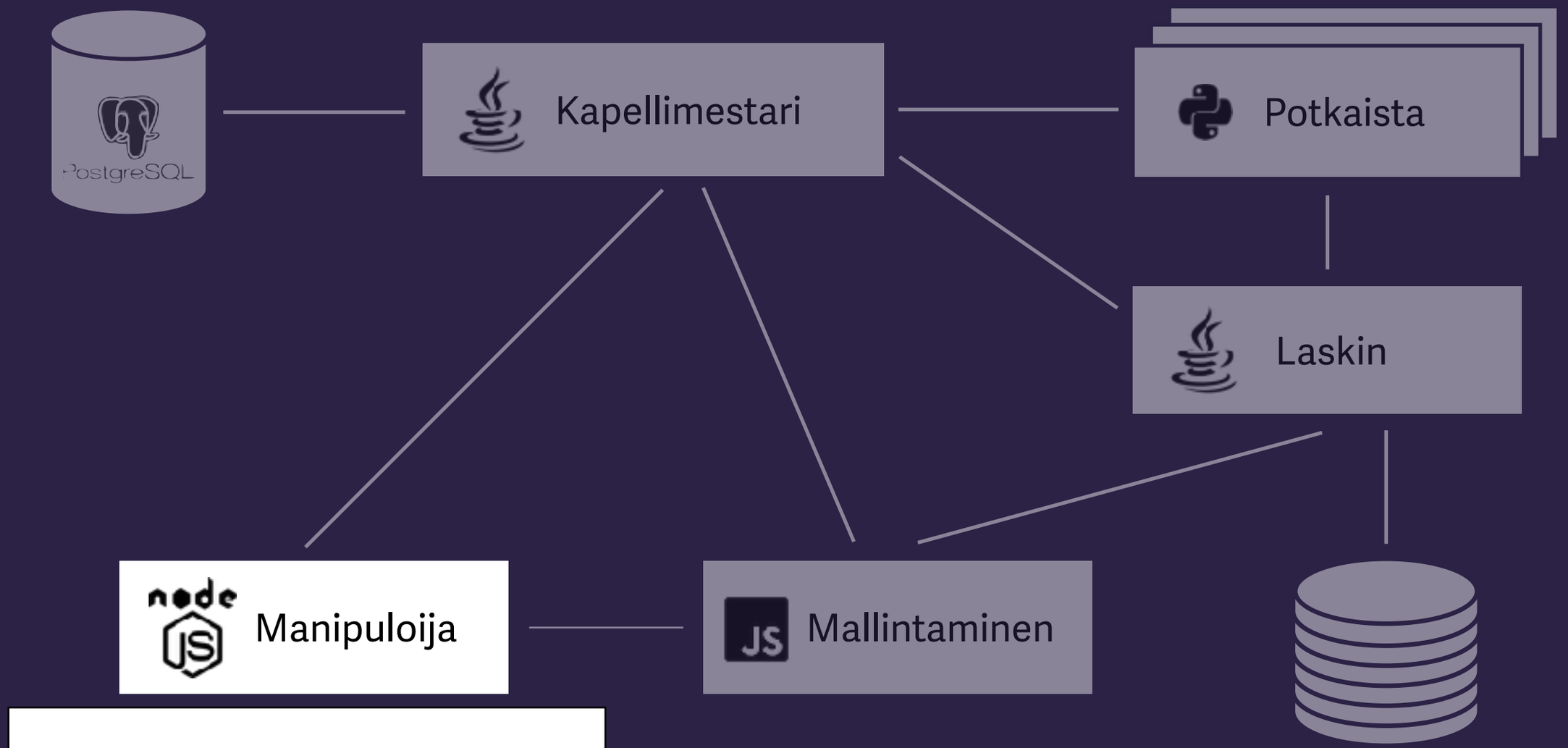
Model development

Server Architecture



Model development

Server Architecture

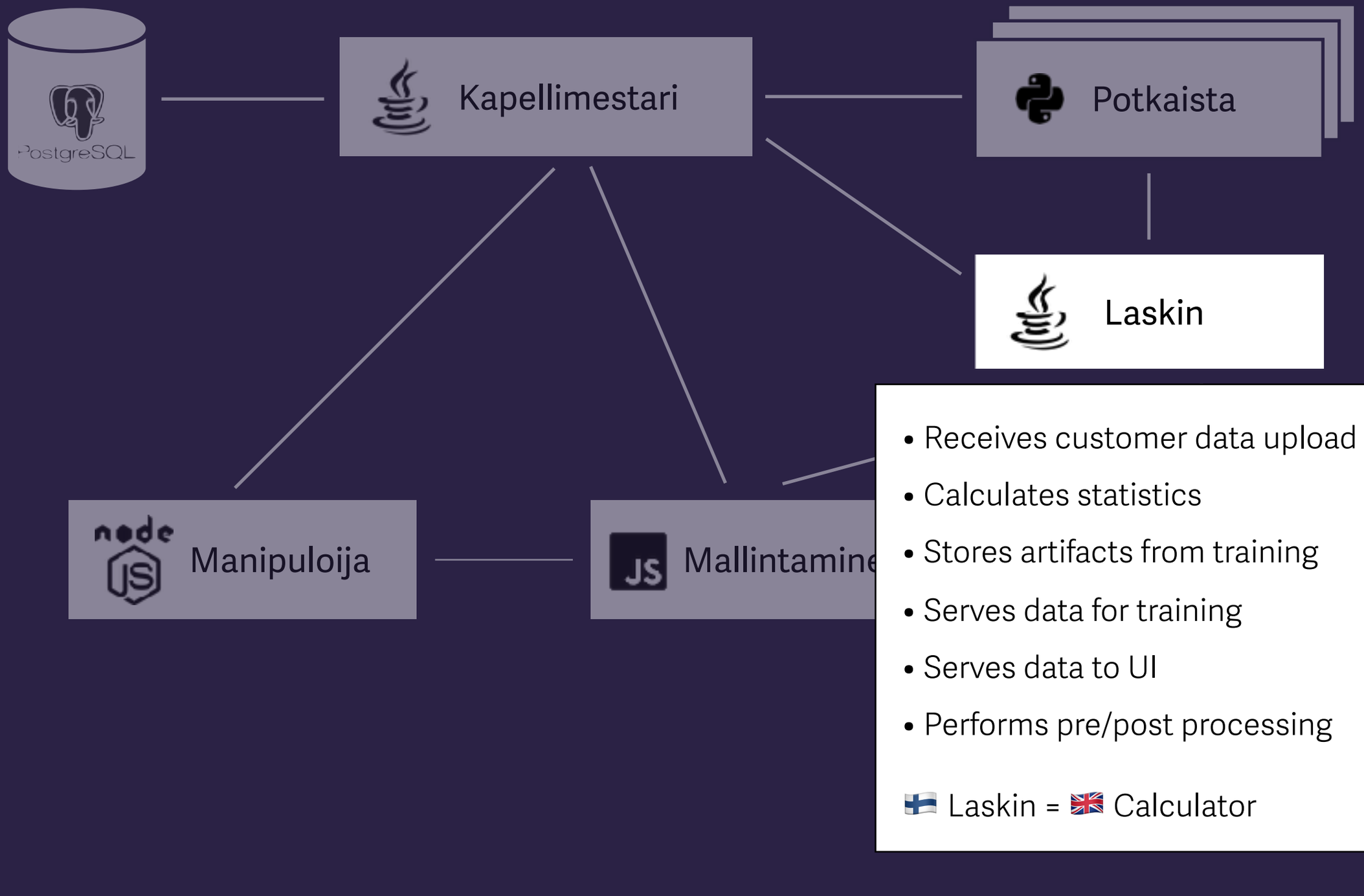


- Coordinates model builder collaboration and edits

🇫🇮 Manipuloija = 🇬🇧 Manipulator

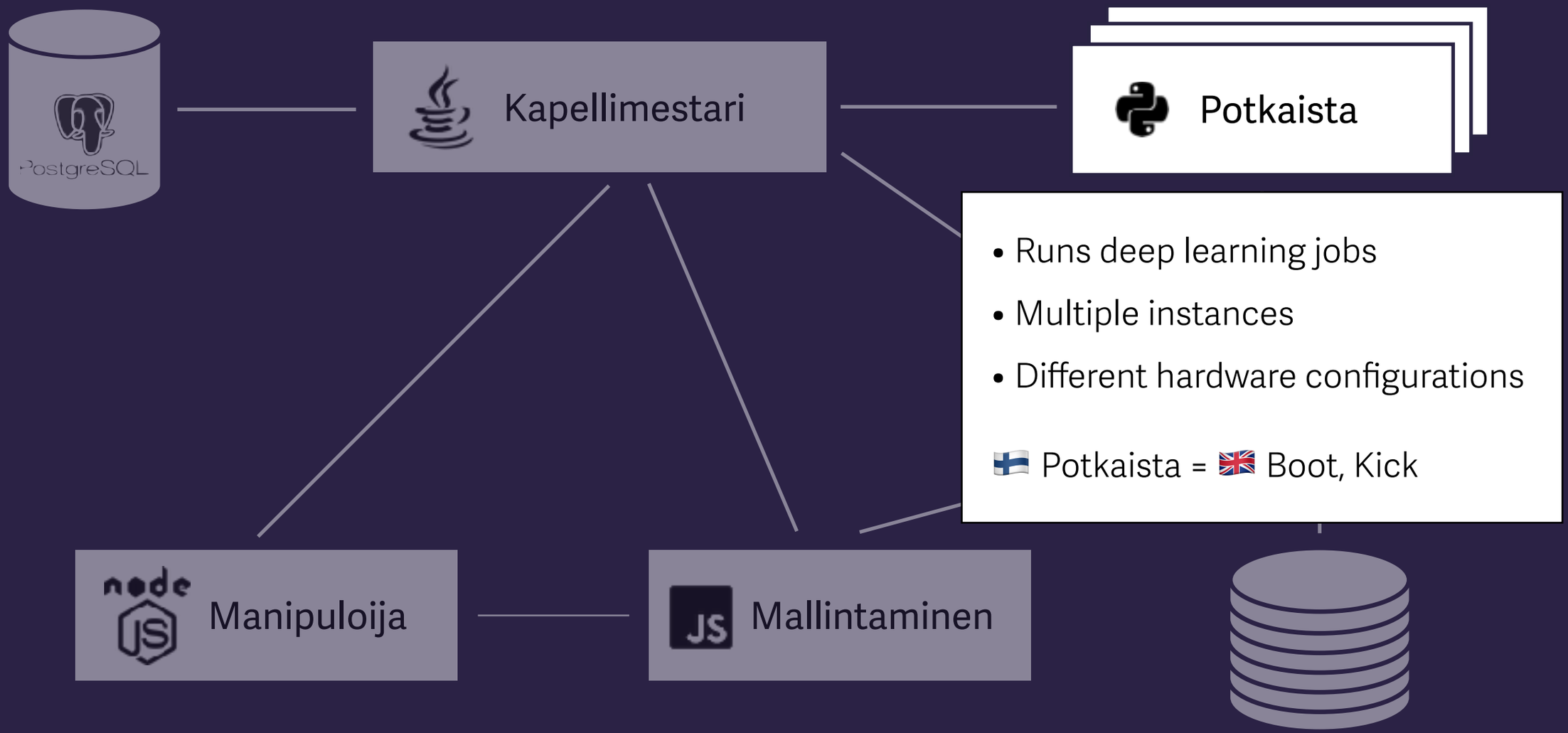
Model development

Server Architecture



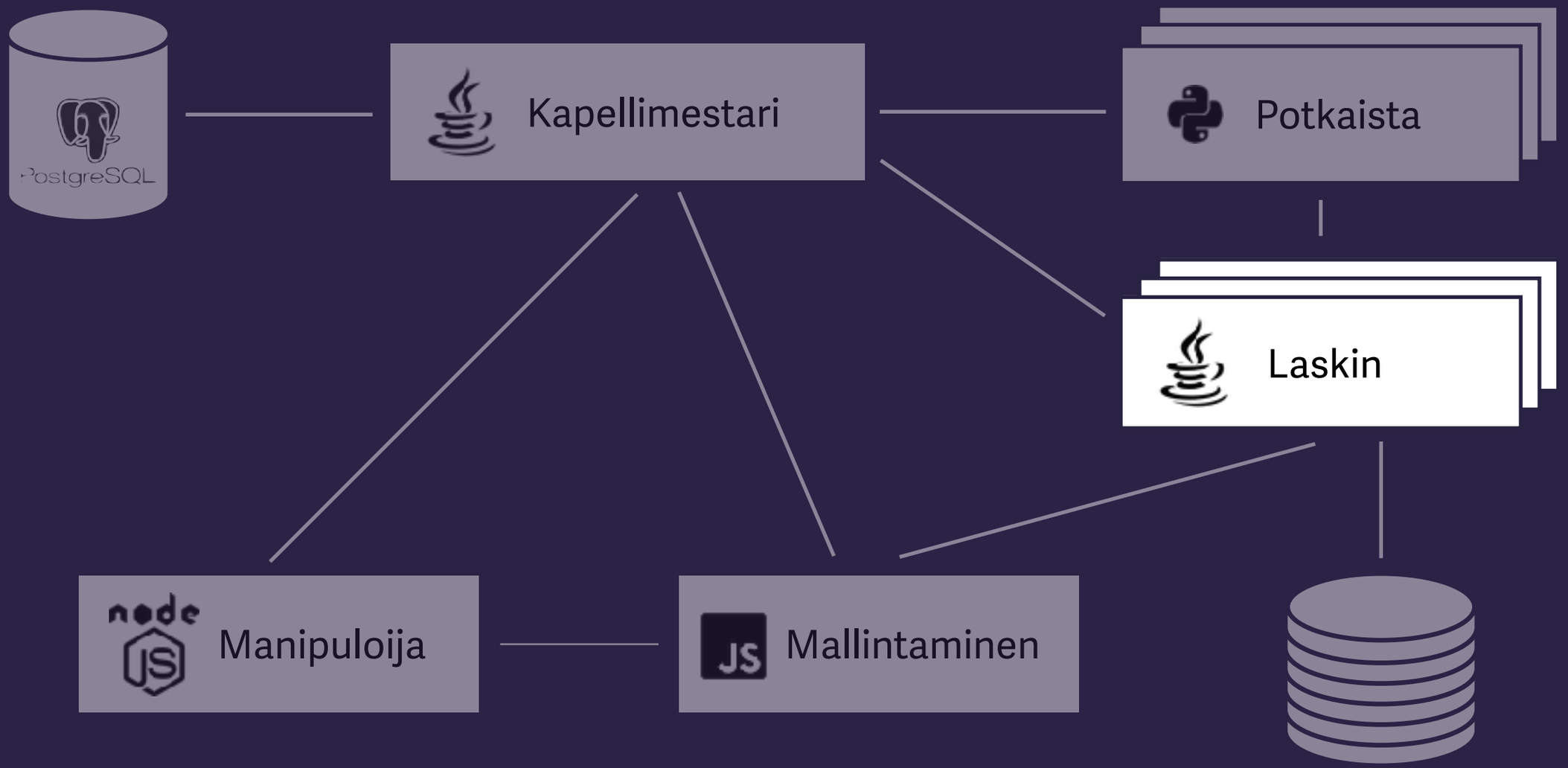
Model development

Server Architecture



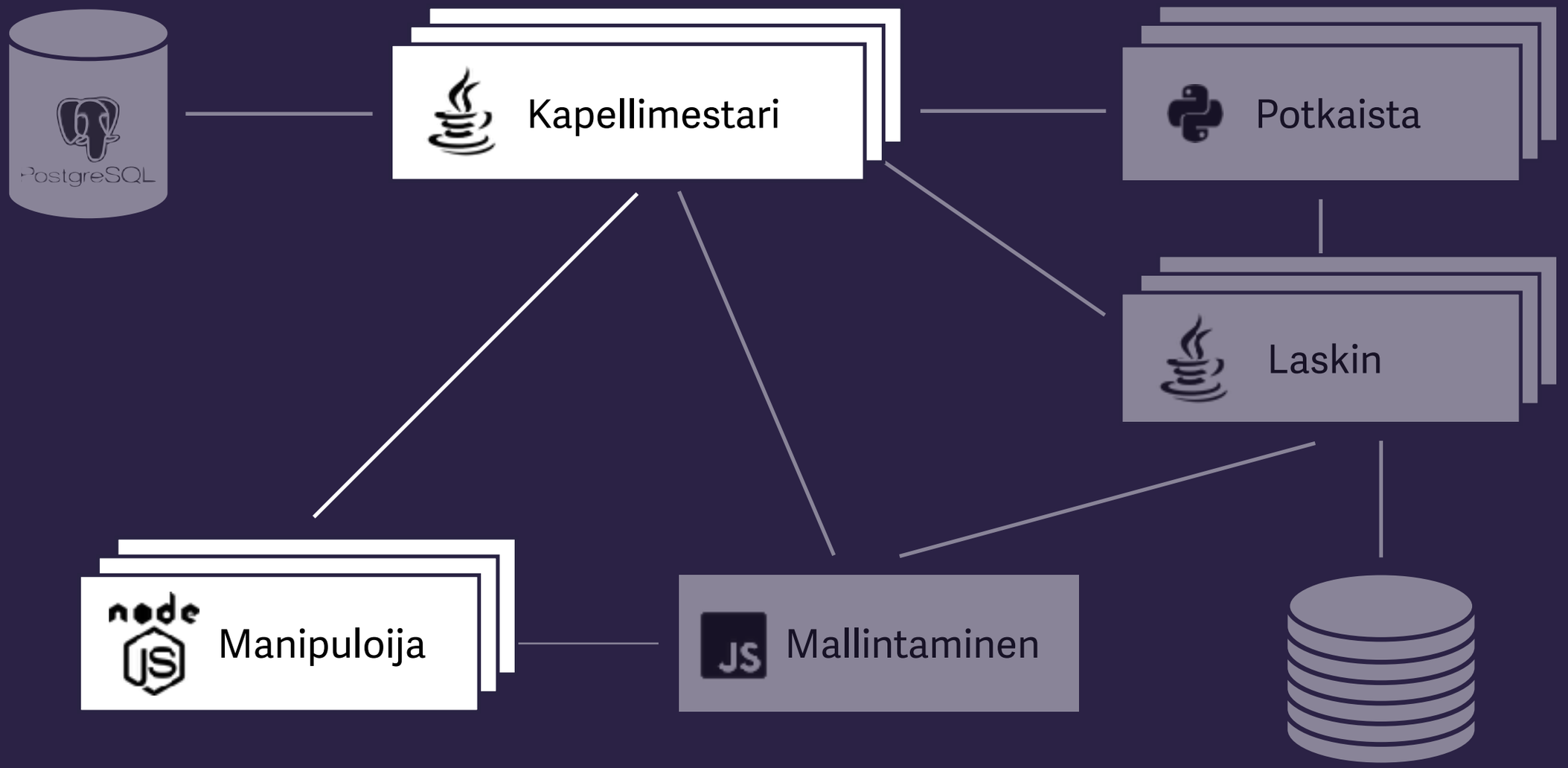
Model development

Server Architecture - near future



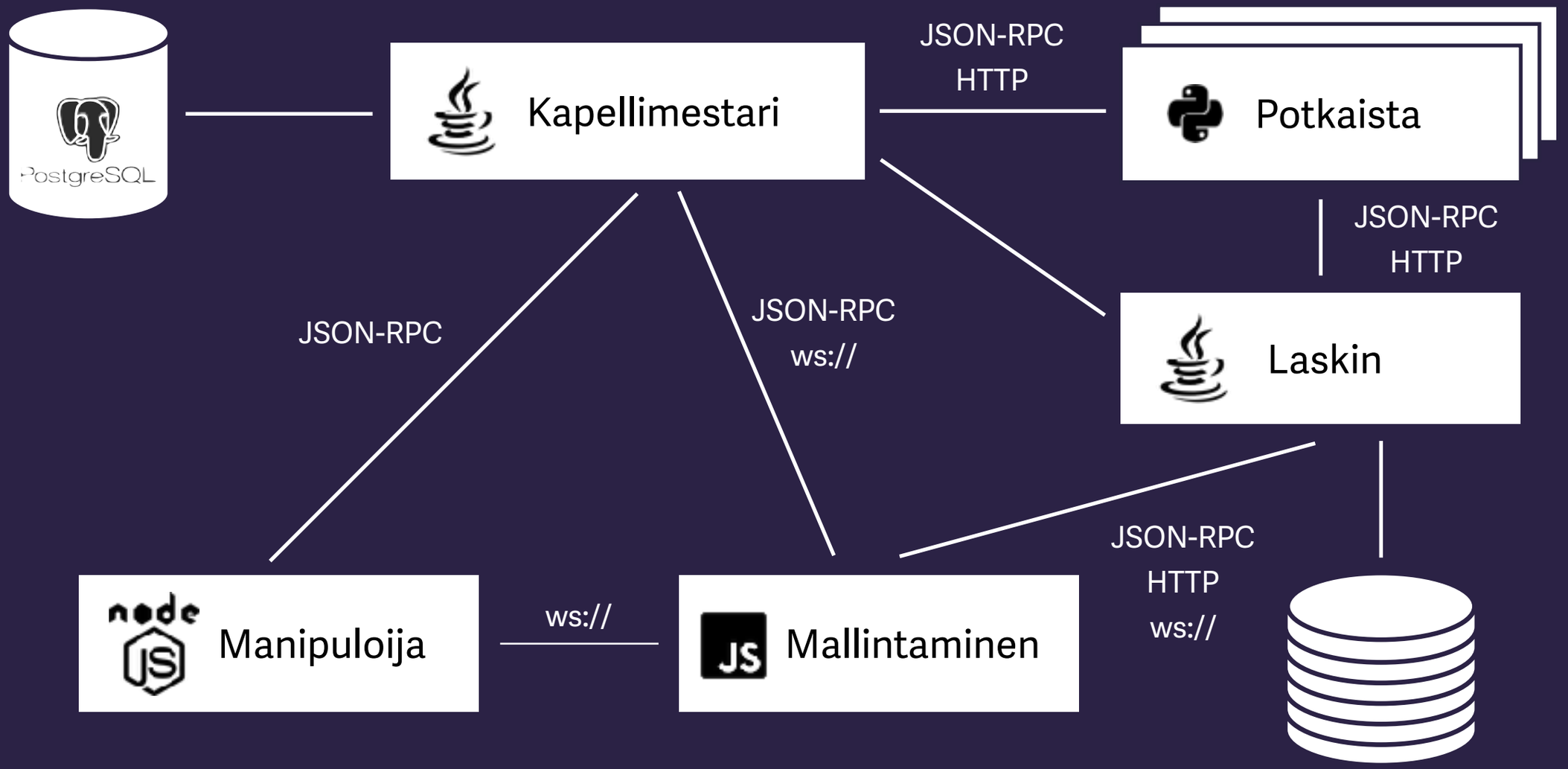
Model development

Server Architecture - far future



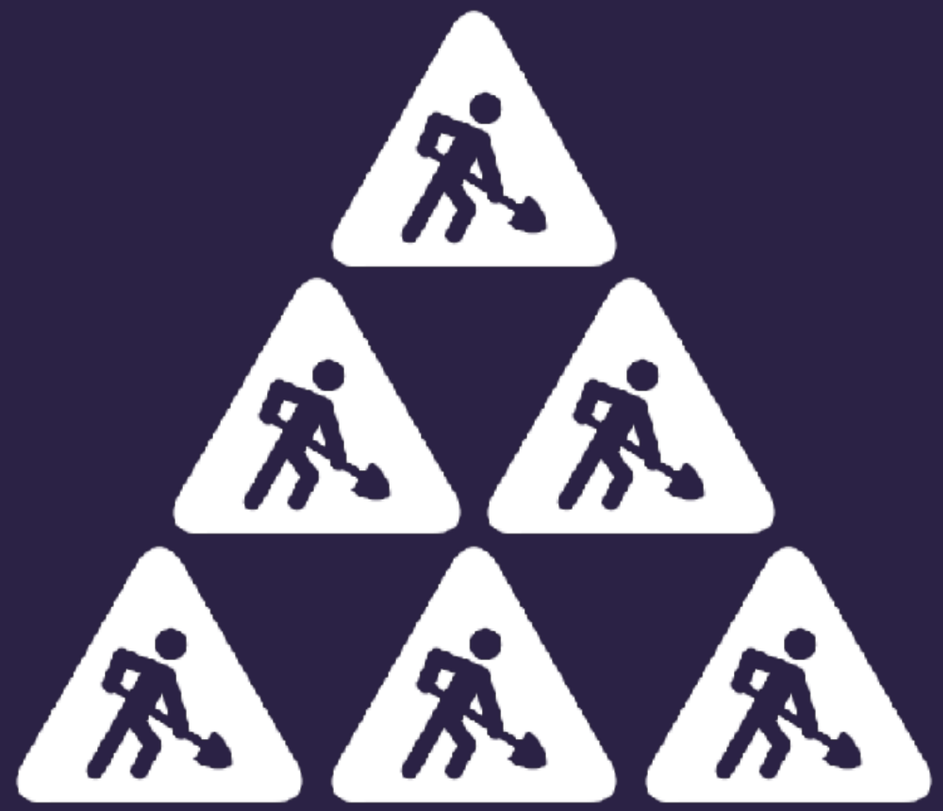
Model development

Used communication protocols



Deployment

Server Architecture



Key concepts

Kapellimestari API:s

Laskin API:s

Malli.json

Install development environment

Install dev-environment

https://git.io/vpDgr

(https://github.com/Peltarion/rakenne/blob/master/docs/install-platform-local.md)

Hands-on exercise

Hands-on exercise

Add an activation function

Upcoming sessions

Hands-on exercise: Add a new loss function

Hands-on exercise: Add a new layer