

Natnicha Chw's landscape

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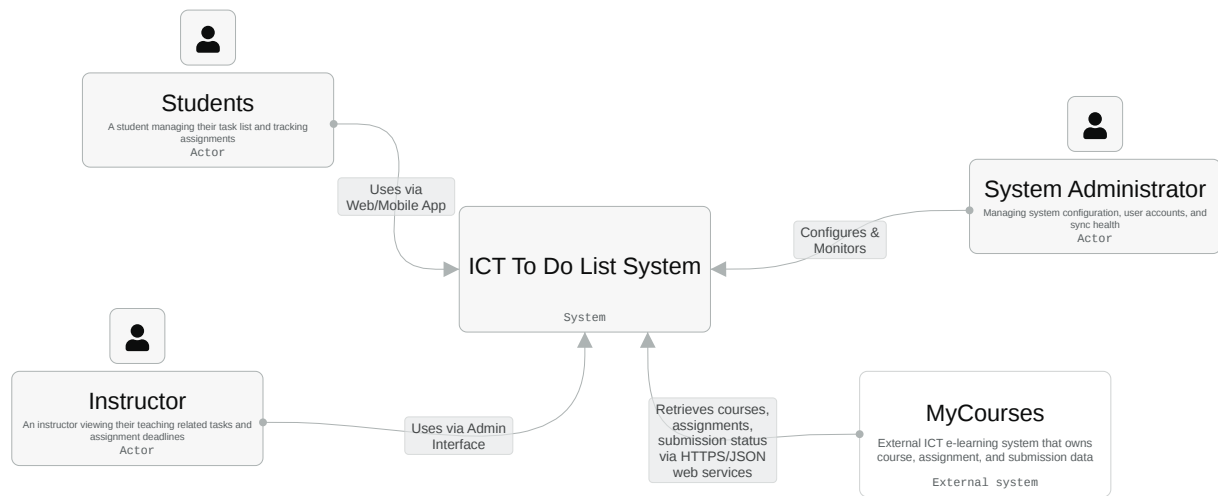
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1. Context diagrams

1.1. To Do

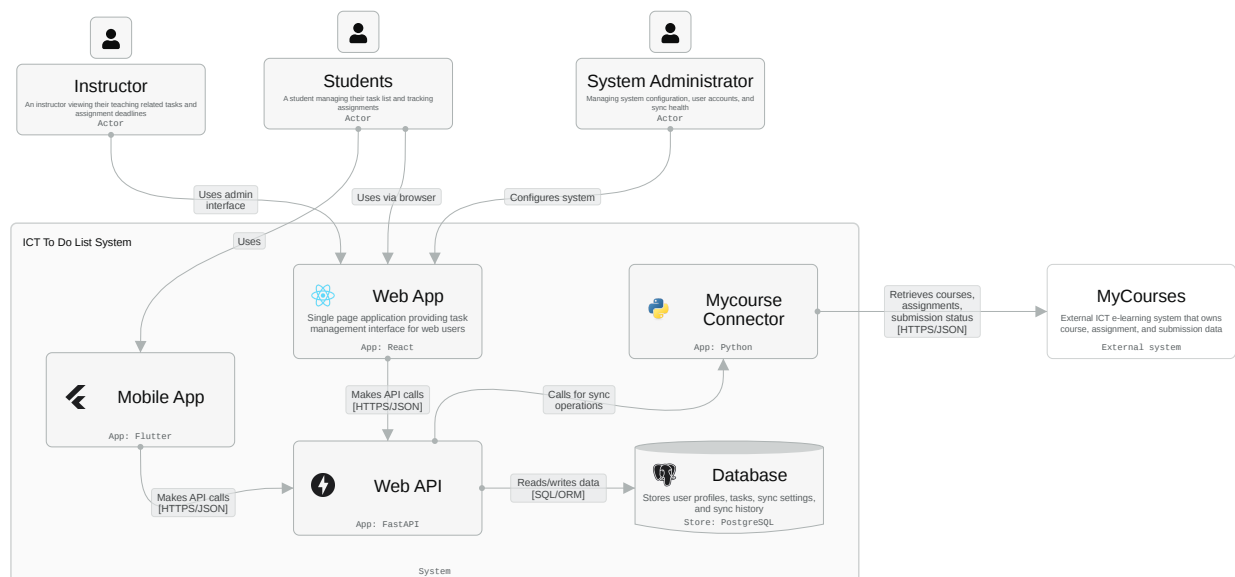
Context diagram in the Default domain domain.



2. App diagrams

2.1. ICT To Do List System App Diagram 2

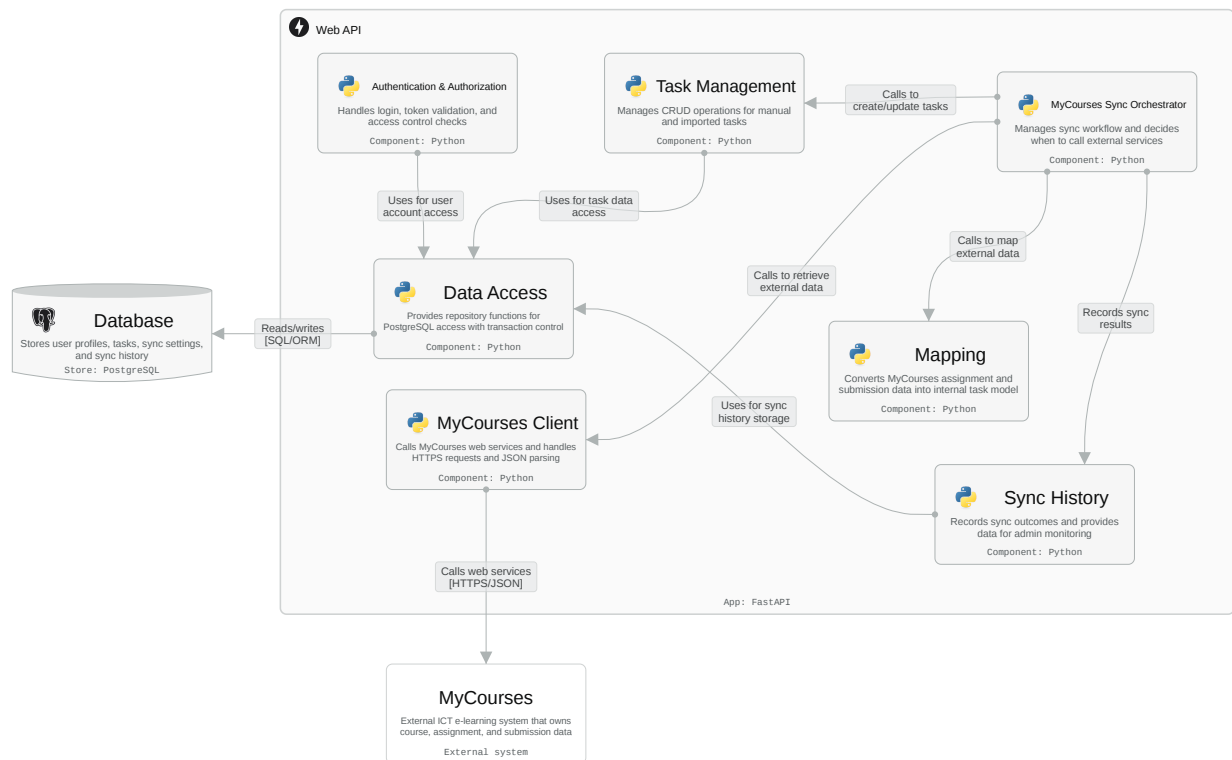
ICT To Do List System app diagram in the Default domain domain.



3. Component diagrams

3.1. Web API Component Diagram

Web API component diagram in the Default domain domain.



4. Actors

4.1. Instructor

Internal actor in the Default domain domain.

Status: live

An instructor viewing their teaching related tasks and assignment deadlines

In diagrams:

- [ICT To Do List System App Diagram 2](#)
- [To Do](#)

4.2. Students

Internal actor in the Default domain domain.

Status: live

A student managing their task list and tracking assignments

In diagrams:

- [ICT To Do List System App Diagram 2](#)
- [To Do](#)

4.3. System Administrator

Internal actor in the Default domain domain.

Status: live

Managing system configuration, user accounts, and sync health

In diagrams:

- [ICT To Do List System App Diagram 2](#)
- [To Do](#)

5. Systems

5.1. ICT To Do List System

Internal system in the Default domain domain.

Status: live

In diagrams:

- [ICT To Do List System App Diagram 2](#)
- [To Do](#)

A task management system for the ICT e-learning environment that helps students track personal tasks and automatically sync course work from MyCourses

5.2. MyCourses

External system in the Default domain domain.

Status: live

External ICT e-learning system that owns course, assignment, and submission data

In diagrams:

- [ICT To Do List System App Diagram 2](#)
- [To Do](#)
- [Web API Component Diagram](#)

External ICT e-learning system that owns course, assignment, and submission data

6. Apps

6.1. Mobile App

Internal app in the Default domain domain.

Status: live

Technologies:

- [Flutter](#)

In diagrams:

- [ICT To Do List System App Diagram 2](#)

6.2. Mycourse Connector

Internal app in the Default domain domain.

Status: live

Technologies:

- [Python](#)

In diagrams:

- [ICT To Do List System App Diagram 2](#)

6.3. Web API

Internal app in the Default domain domain.

Status: live

Technologies:

- [FastAPI](#)

In diagrams:

- [ICT To Do List System App Diagram 2](#)
- [Web API Component Diagram](#)

6.4. Web App

Internal app in the Default domain domain.

Status: live

Single page application providing task management interface for web users

Technologies:

- [React](#)

In diagrams:

- [ICT To Do List System App Diagram 2](#)

7. Stores

7.1. Database

Internal store in the Default domain domain.

Status: live

Stores user profiles, tasks, sync settings, and sync history

Technologies:

- [PostgreSQL](#)

In diagrams:

- [ICT To Do List System App Diagram 2](#)
- [Web API Component Diagram](#)

8. Components

8.1. Authentication & Authorization

Internal component in the Default domain domain.

Status: live

Handles login, token validation, and access control checks

Technologies:

- [Python](#)

In diagrams:

- [Web API Component Diagram](#)

8.2. Data Access

Internal component in the Default domain domain.

Status: live

Provides repository functions for PostgreSQL access with transaction control

Technologies:

- [Python](#)

In diagrams:

- [Web API Component Diagram](#)

8.3. Mapping

Internal component in the Default domain domain.

Status: live

Converts MyCourses assignment and submission data into internal task model

Technologies:

- [Python](#)

In diagrams:

- [Web API Component Diagram](#)

8.4. MyCourses Client

Internal component in the Default domain domain.

Status: live

Calls MyCourses web services and handles HTTPS requests and JSON parsing

Technologies:

- [Python](#)

In diagrams:

- [Web API Component Diagram](#)

8.5. MyCourses Sync Orchestrator

Internal component in the Default domain domain.

Status: live

Manages sync workflow and decides when to call external services

Technologies:

- [Python](#)

In diagrams:

- [Web API Component Diagram](#)

8.6. Sync History

Internal component in the Default domain domain.

Status: live

Records sync outcomes and provides data for admin monitoring

Technologies:

- [Python](#)

In diagrams:

- [Web API Component Diagram](#)

8.7. Task Management

Internal component in the Default domain domain.

Status: live

Manages CRUD operations for manual and imported tasks

Technologies:

- [Python](#)

In diagrams:

- [Web API Component Diagram](#)