

Kruethaikp's landscape

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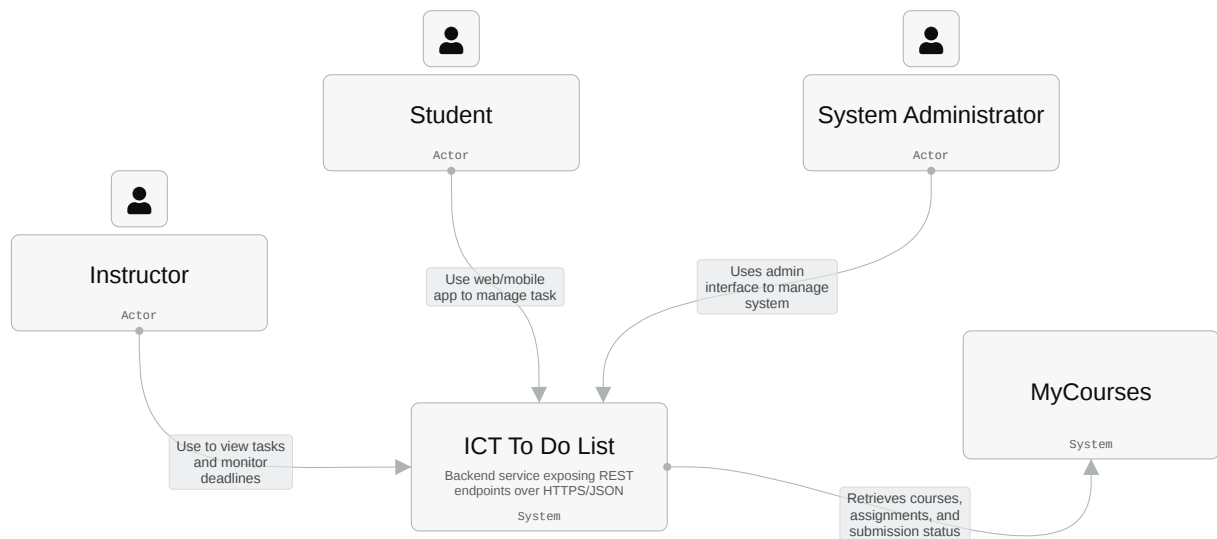
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1. Context diagrams

1.1. Context Diagram

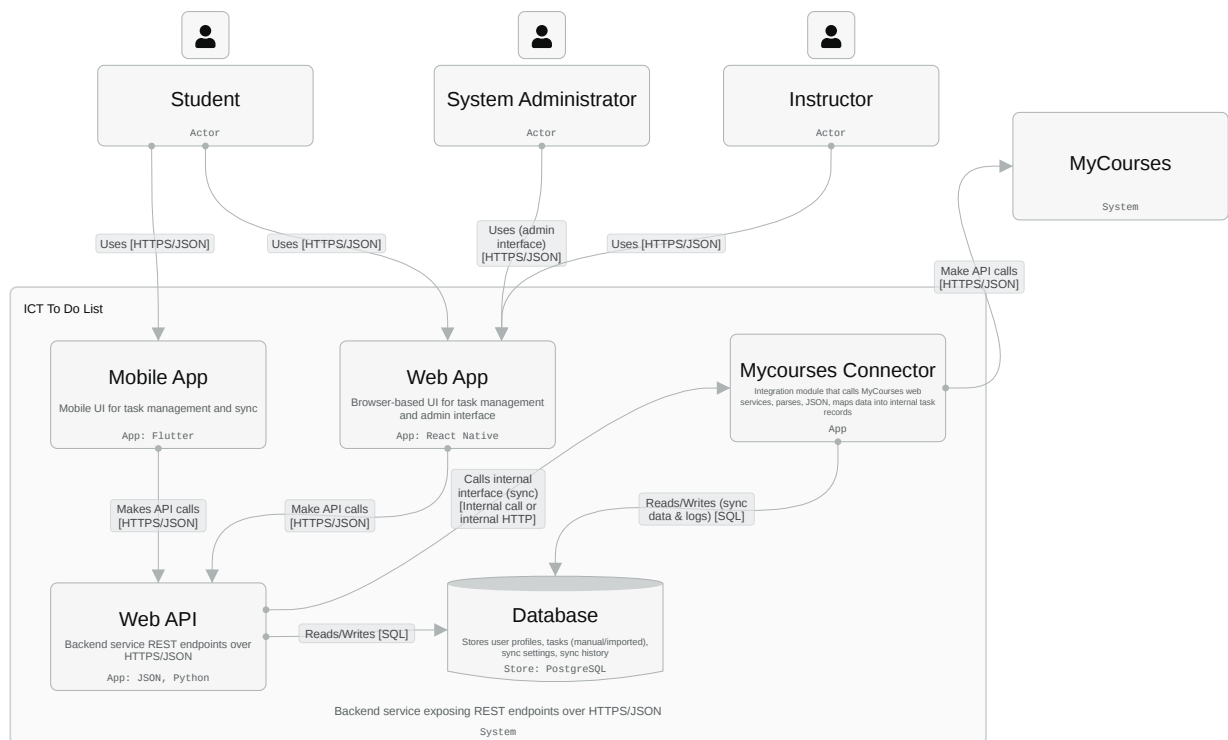
Context diagram in the Default domain domain.



2. App diagrams

2.1. ICT To Do List App Diagram

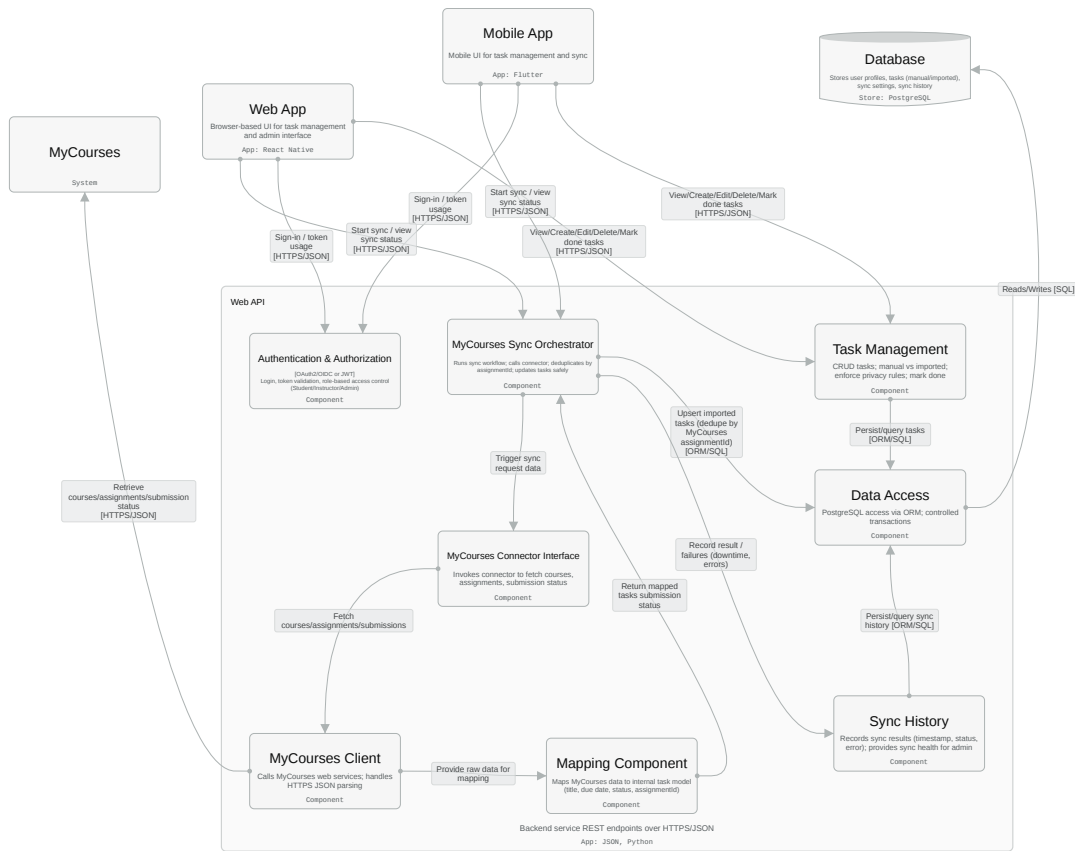
ICT To Do List app diagram in the Default domain domain.



3. Component diagrams

3.1. Web API Component Diagram

Web API component diagram in the Default domain.



4. Actors

4.1. Instructor

Internal actor in the Default domain domain.

Status: live

In diagrams:

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

4.2. Student

Internal actor in the Default domain domain.

Status: live

In diagrams:

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

4.3. System Administrator

Internal actor in the Default domain domain.

Status: live

In diagrams:

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

5. Systems

5.1. ICT To Do List

Internal system in the Default domain domain.

Status: live

Backend service exposing REST endpoints over HTTPS/JSON

In diagrams:

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

5.2. MyCourses

Internal system in the Default domain domain.

Status: live

In diagrams:

- [Context Diagram](#)

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

6. Apps

6.1. Mobile App

Internal app in the Default domain domain.

Status: live

Mobile UI for task management and sync

Technologies:

- [Flutter](#)

In diagrams:

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

6.2. Mycourses Connector

Internal app in the Default domain domain.

Status: live

Integration module that calls MyCourses web services, parses, JSON, maps data into internal task records

In diagrams:

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

6.3. Web API

Internal app in the Default domain domain.

Status: live

Backend service REST endpoints over HTTPS/JSON

Technologies:

- [JSON \(JavaScript Object Notation\)](#)
- [Python](#)

In diagrams:

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

6.4. Web App

Internal app in the Default domain domain.

Status: live

Browser-based UI for task management and admin interface

Technologies:

- [React Native](#)

In diagrams:

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

7. Stores

7.1. Database

Internal store in the Default domain domain.

Status: live

Stores user profiles, tasks (manual/imported), sync settings, sync history

Technologies:

- [PostgreSQL](#)

In diagrams:

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

8. Components

8.1. Authentication & Authorization

Internal component in the Default domain domain.

Status: live

[OAuth2/OIDC or JWT] Login, token validation, role-based access control (Student/Instructor/Admin)

In diagrams:

- [Web API Component Diagram](#)

8.2. Data Access

Internal component in the Default domain domain.

Status: live

PostgreSQL access via ORM; controlled transactions

In diagrams:

- [Web API Component Diagram](#)

8.3. Mapping Component

Internal component in the Default domain domain.

Status: live

Maps MyCourses data to internal task model (title, due date, status, assignmentId)

In diagrams:

- [Web API Component Diagram](#)

8.4. MyCourses Client

Internal component in the Default domain domain.

Status: live

Calls MyCourses web services; handles HTTPS + JSON parsing

In diagrams:

- [Web API Component Diagram](#)

8.5. MyCourses Connector Interface

Internal component in the Default domain domain.

Status: live

Invokes connector to fetch courses, assignments, submission status

In diagrams:

- [Web API Component Diagram](#)

8.6. MyCourses Sync Orchestrator

Internal component in the Default domain domain.

Status: live

Runs sync workflow; calls connector; deduplicates by assignmentId; updates tasks safely

In diagrams:

- [Web API Component Diagram](#)

8.7. Sync History

Internal component in the Default domain domain.

Status: live

Records sync results (timestamp, status, error); provides sync health for admin

In diagrams:

- [Web API Component Diagram](#)

8.8. Task Management

Internal component in the Default domain domain.

Status: live

CRUD tasks; manual vs imported; enforce privacy rules; mark done

In diagrams:

- [Web API Component Diagram](#)