

# Kruethaikp's landscape

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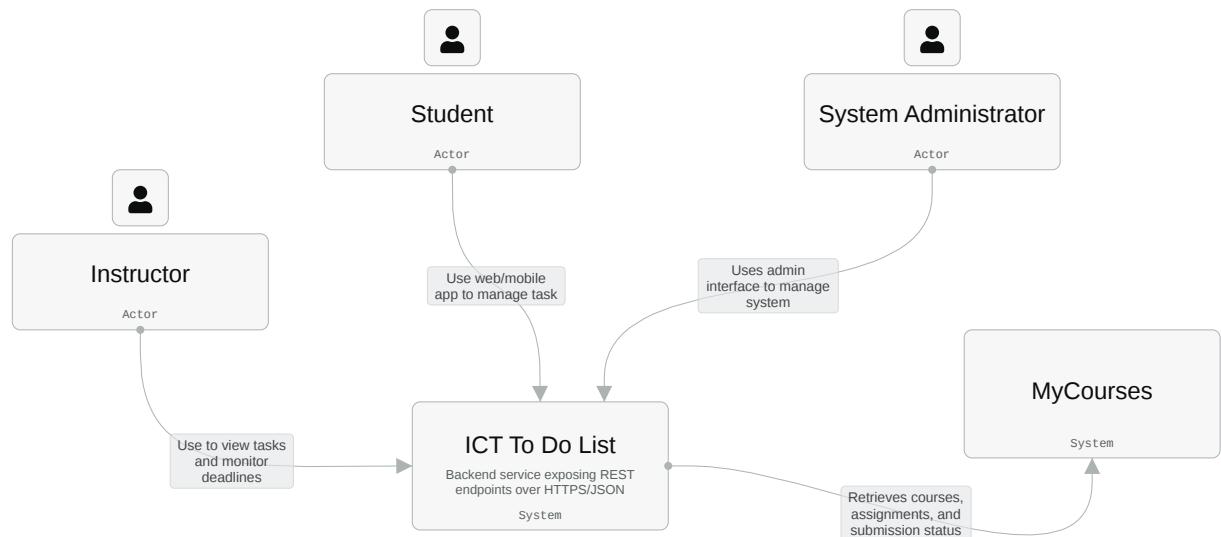
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# 1. Context diagrams

## 1.1. Context Diagram

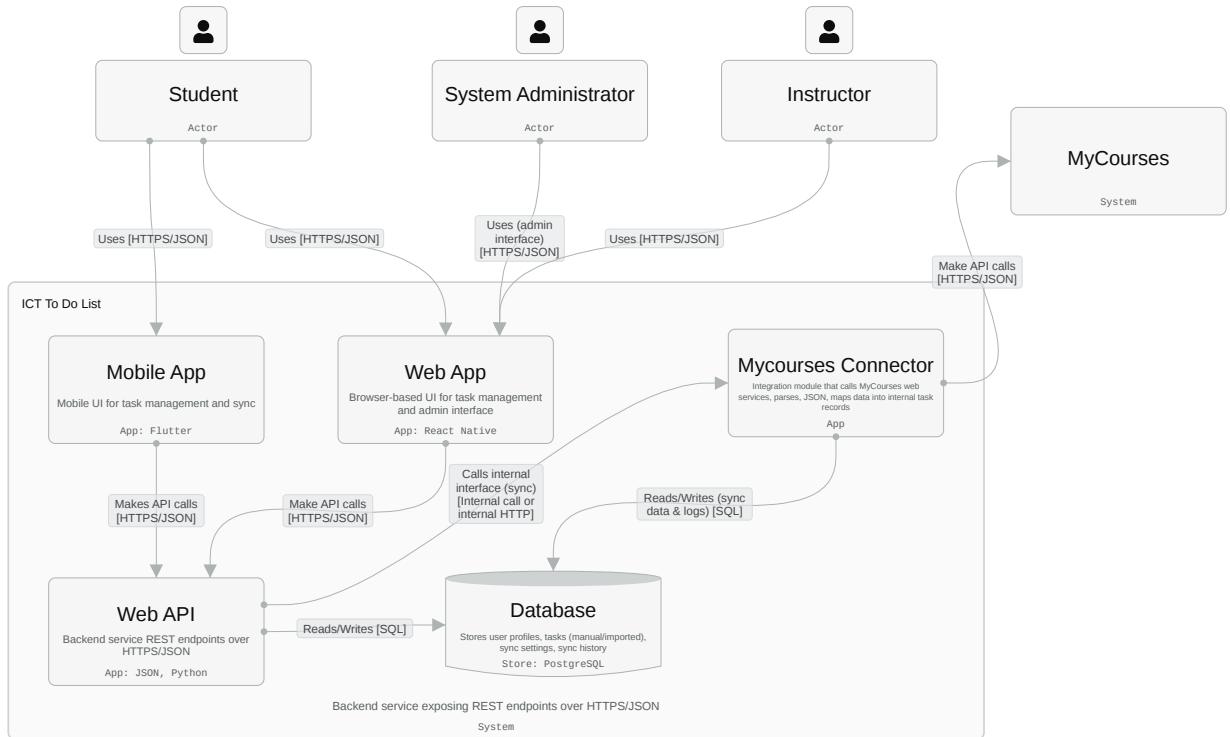
Context diagram in the Default domain domain.



## 2. App diagrams

### 2.1. ICT To Do List App Diagram

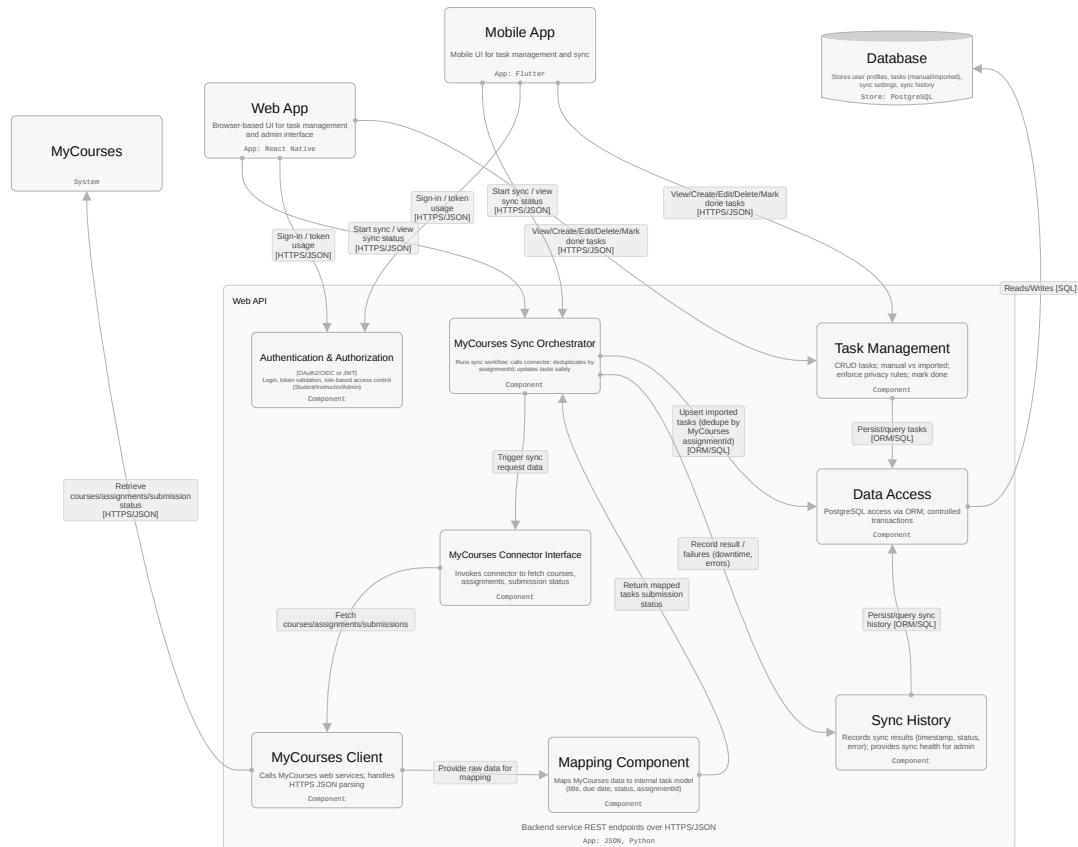
ICT To Do List app diagram in the Default domain domain.



### 3. Component diagrams

#### 3.1. Web API Component Diagram

Web API component diagram in the Default domain 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](#)