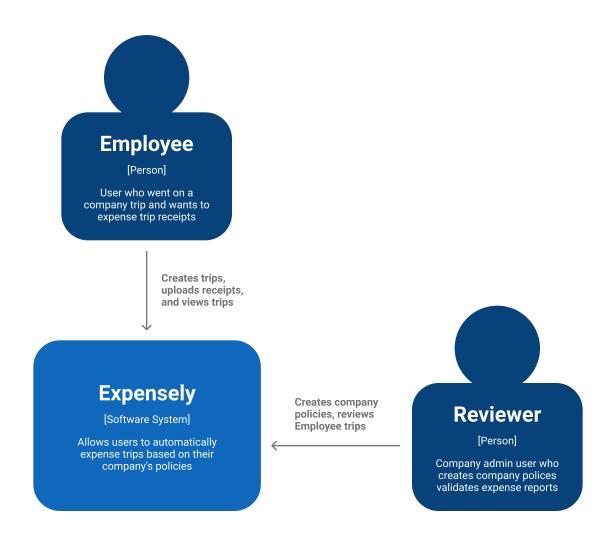
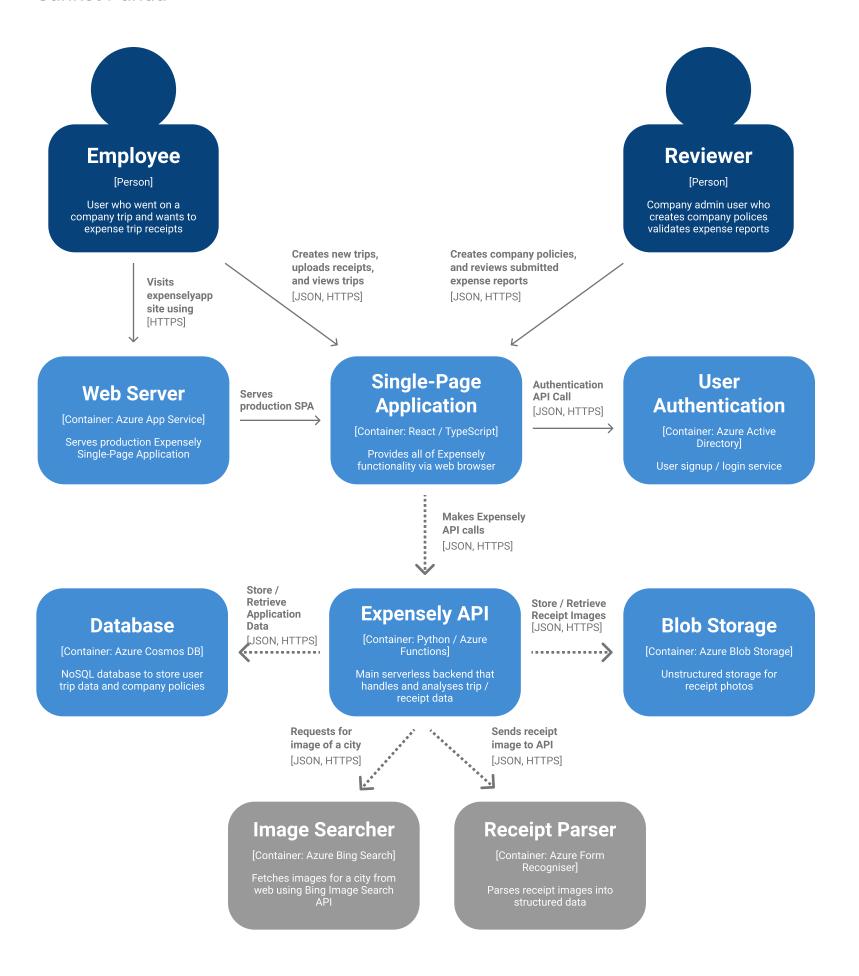
# Expensely System Context (L1)

Sanket Panda



# **Expensely Containers (L2)**

Sanket Panda



# **Expensely Components (L3)**

Sanket Panda

### Single-Page **Application**

[Container: React / TypeScript]

Provides all of Expensely functionality via web browser

Request on Dashboard page [JSON, HTTPS]

**Submit Trip with** Receipts [JSON, HTTPS]

#### **Database**

[Container: Azure Cosmos DB]

NoSQL database to store user trip data and company policies

Store Trip Data **Post Analysis** 

[JSON, HTTPS]

**Retrieve User** 

Trips using
[JSON, HTTPS]

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### **Fetch User Data**

[Container: Python / Azure Functions]

Fetches user trip data for Dashboard view

**Retrieve Company Policy Entries** 

[JSON, HTTPS]

### **Store Receipts**

[Container: Python / Azure Functions]

Stores Receipt Images in Azure Blob Storage and generates URLs

#### **Store Receipt Images**

[JSON, HTTPS]

····· Unstructured storage for receipt photos

**Blob Storage** 

[Container: Azure Blob Storage]

#### **Passes Trip Data** with Receipt URLs [JSON, HTTPS]

**Passes Trip Data** with Receipt URLs [JSON, HTTPS]

### **Parse Receipts**

[Container: Python / Azure Functions]

Parses Receipts with Azure Form Recogniser

#### Sends Image **URL for Parsing** [JSON, HTTPS]

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### **Receipt Parser**

Parses receipt images into structured data

## **Review Trip**

[Container: Python / Azure Functions]

Reviews trip's receipts using company policies from database

Passes Trip Data with Receipt URLs [JSON, HTTPS]

### **Store Trip**

[Container: Python / Azure Functions]

Fetch an image for the city the user entered and store the trip's data in the database, post analysis

#### Requests for image of a city [JSON, HTTPS]

### **Image Searcher**

Fetches images for a city from web using Bing Image Search API