

Garcon

Software Design Description

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1. Introduction

1.1 Purpose of the System

1.2 Scope

1.3 Stakeholders and Their Concerns

2. References

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4. Architectural Views

4.1 Context View

4.2 Composition View

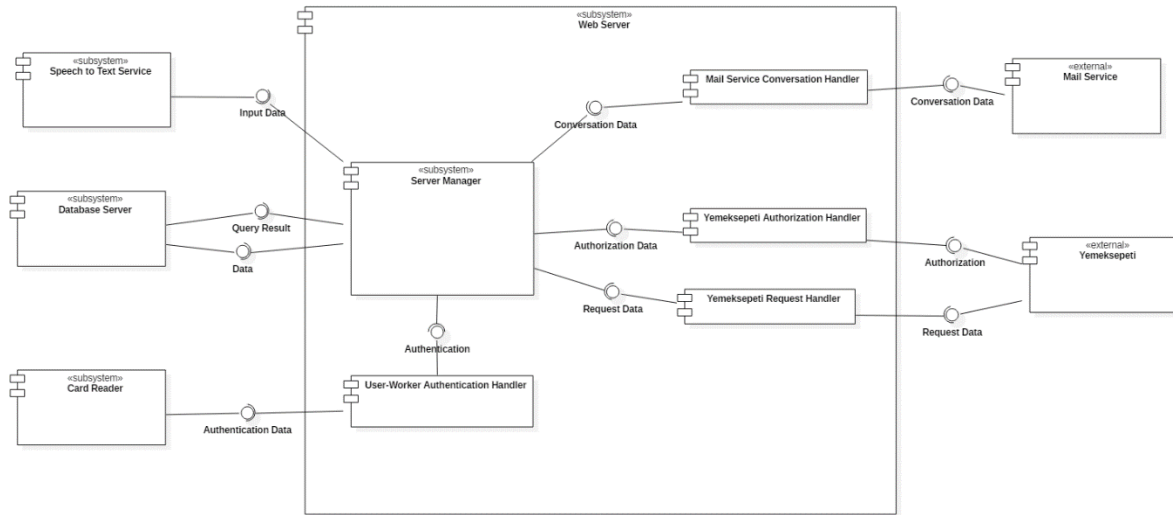


Figure 1: Component Diagram

Design Rationale:

- Server Manager is the fundamental component, which manages/handles information flow and data flow in the Web Server. Moreover, it authorizes/authenticates users and workers.
- Card reader is the component for authentication of users and workers. When Card Reader reads data from ID card, it will direct Authentication Data to User-Worker Authentication handler.
- User-Worker Authentication handler component is responsible from user and worker authentication to the system. It processes raw authentication data coming from card reader.
- Speech to Text Service is the main input provider for system. It converts given audial data to processable data that will be forwarded to Server Manager.
- Database Server is the component that securely stores the related data and provides it when needed.
- Since mailing is the main conversation between workers and system itself, Mail Service is an external component, which is dedicated for managing conversation.
- Mail Service Conversation Handler is the component responsible for providing processed conversations and related data (timestamps, target workers...).
- Yemeksepeti is the external component for ordering food. Two components are responsible from the interaction between Server Manager and Yemeksepeti. Firstly, Yemeksepeti Authorization Handler manages the authorization of user to Yemeksepeti. Secondly, Yemeksepeti Request Handler processes and manages users' orders from Yemeksepeti.

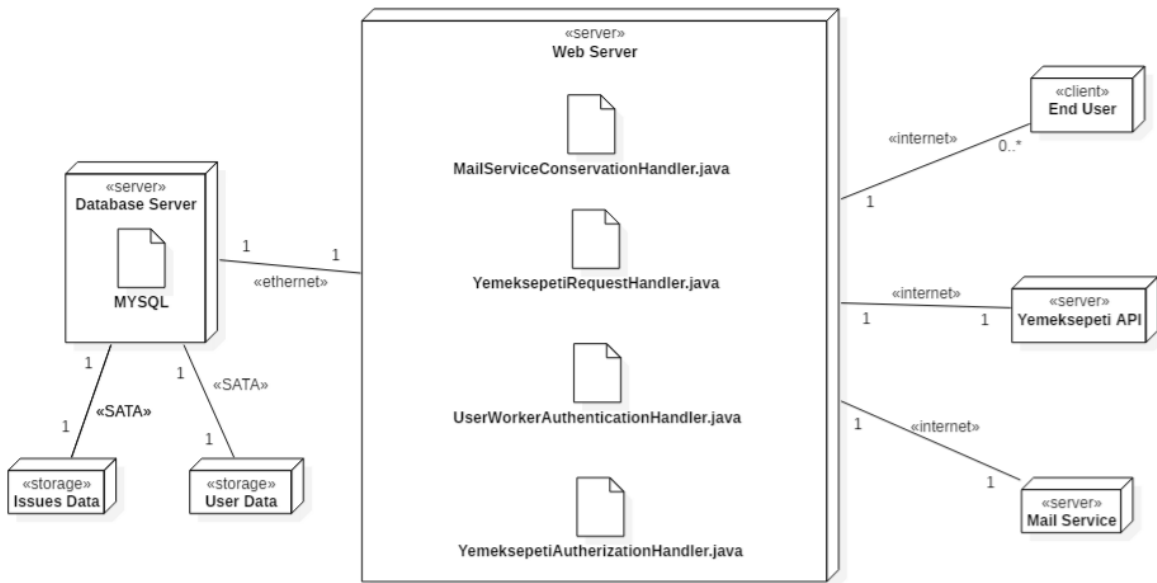


Figure 2: Deployment Diagram

Design Rationale:

- We use Java/Spring in web server side and DB is managed by MySQL.
- The end users who uses Garcon to get information or opening an issue will communicate with system with talking.
- Garcon will take audial input and translate into a text input and sends appropriate handler.
- There are two separate db storage:
 - Issue storage is for storing all issues.
 - User storage is for storing all information about admins/workers/regular users.
- We SATA for all storage since it has much larger storage space to store whole issue/user.
- All internet based connections will use encrypted communication protocols.

4.3 Information View

4.3.1 Interfaces

4.3.2 CRUD Operations

4.4 Interface View

4.4.1 Internal Interfaces

4.4.2 External Interfaces