**DATABASE SERVER**

**Software Requirement Specification**

**(SRS) Document**

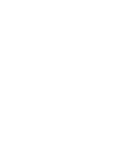
**SPRINT-2**

**Implementation**

Project Timeline: - **28/11/2022 to 09/12/2022**

Batch: - **Capgemini - 93- CPP - Linux -B7**

Submitted by: - **CG93 - Group 7**



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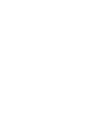
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# INTRODUCTION

The introduction of the software requirement specification provides an overview of the entire software.

Database server is a machine running database software dedicated to providing database services. It is a crucial component in the client -server computing environment where it provides business-critical information requested by the client systems. A database server consists of hardware and software that run a database

## 1.1 Purpose

The purpose of this document is to show the requirements for the database server

Database servers offer companies a simple way to update, maintain and save large amounts of data. If you want to incorporate a database server into your company's operations, it's important to understand the various components of database servers and the types of database servers available.

# OVERALL DESCRIPTION

It is a employee management application used by employees to manage data. Database servers offer companies a simple way to update, maintain and save large amounts of data. If you want to incorporate a database server into your company's operations, it's important to understand the various components of database servers and the types of database servers available.

**2**.**1 Assumptions and Dependency**

* System should have Ubuntu Linux installed.
* System should have either 4GB or more RAM.
* The service is used preferably on a desktop or laptop.

# SYSTEM FEATURES AND REQUIREMENTS

## 3.1 Functionality

### 3.1.1 Create Shared Memory: The server maintains database using shared memory, where users can add, edit and delete data. Shared memory takes the response of handling APIs of database.

### 3.1.2 Accept: It accepts the client connection and handles the operations like adding data, editing and deleting data based on the client requests

### 3.1.3 get info: It displays whether the connection is success or fail, and success and failure messages are displayed for every operation

### 3.1.4 Check data: it displays the employee list based on the request from client

### 3.1.5 Display Menu: it is the main menu for client, which allows user to choose option he has to work on like add, edit and delete data

### 3.1.6 Receive and close:

**3.1.6.1** **Add data :** this function adds the Employee data like name, number and phone number to database based on the client request

**3.1.6.2 Edit data:** this function will edit data if data is present ,if not sends failure message

**3.6.1.3 Delete data:** it deletes the data present in database

### 3.1.7 Handle edit: this function handles edit, if data is not present in the database,it displays an error message else it takes the new data to edit

## 3.2 Technical Requirements

* OOPs Concept
* IPC
* CPP Language
* System Programming

## 3.3 Non-Functional Requirements

* CPP Unit to automate unit testing
* UML Diagrams
* HLD,LLD
* Valgrind to detect memory leak
* Make file
* Multi file multi directory solution with two step compilation process.

## 3.4 System Features

* Supportability:The system can be started and stopped from the command line..

* Design Constraints: The system is built using only CPP language and system programming.

* Usability:The Database Server is easy to use.

* Reliability & Availability**:** The system is available 24/7 that is whenever the user would like to use the system, they can use it up to its functionalities.

* Performance: The system will work smoothly and efficiently on the user’s terminal**.**