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## Overlap

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### Deployment Plan

Version 1.0



Overlap	Version: <1.0>
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Overlap-Deploy-01	

## Revision History

Date	Version	Description	Author
April 29, 2020	<1.0>	First Draft	Sophie Su

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# Deployment Plan

## 1. Introduction

This is the document that layout the application process of Overlap in development of the architecture system, where components and nodes are labeled to virtually specify embedded client/ server relationship. As well as layout distribution system for managing executable systems to ensure Overlap application plan is ready for delivery.

### 1.1 Purpose

In the case of software development, deployment plan is to make sure that the Overlap application is ready for delivery by laying out the infrastructure and runtime processing for the system.

### 1.2 Scope

The deployment plan lays out the existing systems usage, interactions with subsystems including method and protocol. Displays the structure of the run time system, capture hardware that will be used to implement the system and links between different items and hardware.

### 1.4 Overview

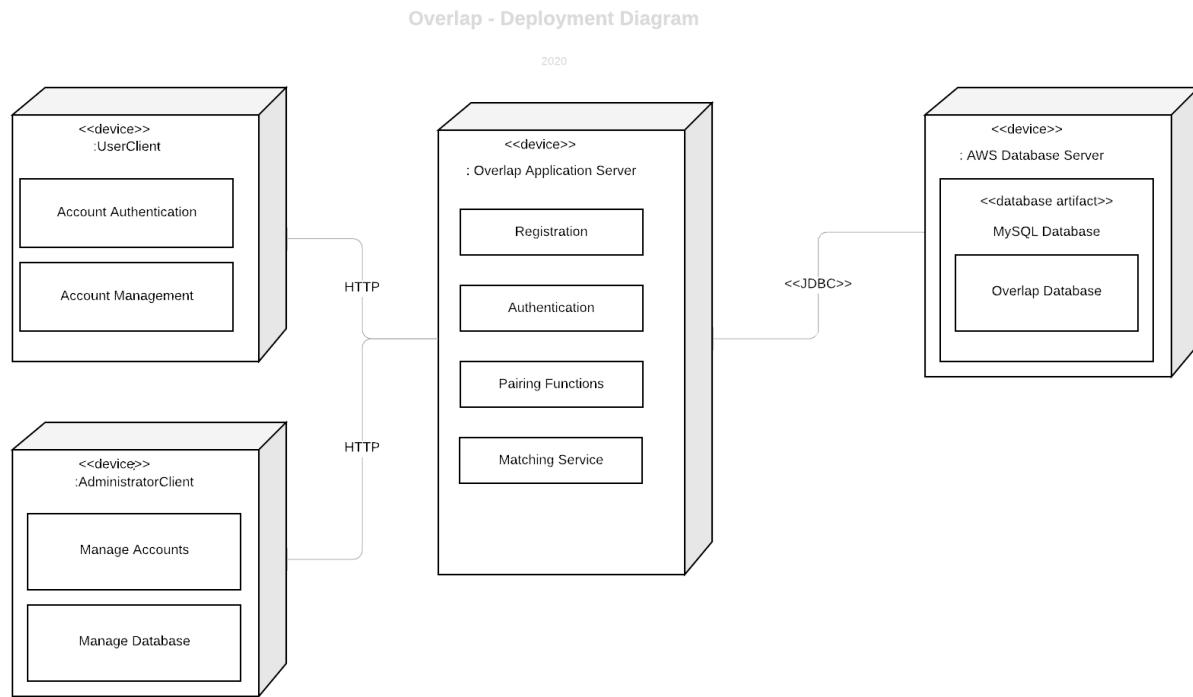
This document is organization by first identify deployment component in the deployment plan, layout dependency

## 2. Deployment Planning

Deployment draft is first created where all team members review the plan, all the element flows are prepared and verified to display clear understanding of all subsystems involved during setout. This required prior knowledge of team members for hardware needs to the planning process.

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## 2.1 Deployment Diagram



<Figure 1>

### 2.1.1 Nodes

- Client Device
  - Client access the service through client device where http connection is required, account authentication and account managed are processed through local file and cache
- Administrative Device
  - Administrative device used to access web server including account management, database management and domain management functions
- Web Server
  - Web servers will be hosted by University of Kansas Virtual Machine, connecting to both client and database will establish connection to the client through http, and use JDBC in connecting databases. It contains all service functions including registration, authentication, and unique overlap functions.
- Database Server

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- The database server MySQL works closely with the web server, providing data appending and retrieving services to the web service. It is an open source relational database management system that provides data organization

### 2.1.2 Connections

- HTTP
  - The communication between client device and overlap server is deployed with http service, opening at port 80 and requires internet connection to be established
  - TCP and UDP are the two major protocol established as the pathway of http connection
- JCBC
  - Java database connectivity is the primary method connection between web server and database is established in order to access MySQL library.

## 3 Deployment Tasks

### 3.1 Responsibilities

All team members are required to withhold deployment hardware and owning deployment software listed on the usage. In case of technology failure, team members should have access to back up equipment such as the access to school computer lab and public library computer.

### 3.2 Schedule

The following are schedule breakdown for deployment process:

- |  |                      |
|--|----------------------|
| - Deployment Plan                          | Before project start |
| - Deploy supporting sub system             | Aug 2020             |
| - Manage development testing               | Aug 2020             |
| - Managing beta program                    | Oct 2020             |
| - Publish product accessible over internet | Nov 2020             |

## 4. Resources

The resource component describes all the hardware and software components that are used in developing the Overlap networking website application. .

### 4.1 Facilities

The facilities the project is developed under are school lab, library computer room, and home. These facilities provide power and internet connection at all times with working hardware, software installed.

### 4.2 Hardware

Hardware deployed during the development process are Dell Desktop, IPower Desktop, MacBook Air, Ubuntu to develop and test on different environments.

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