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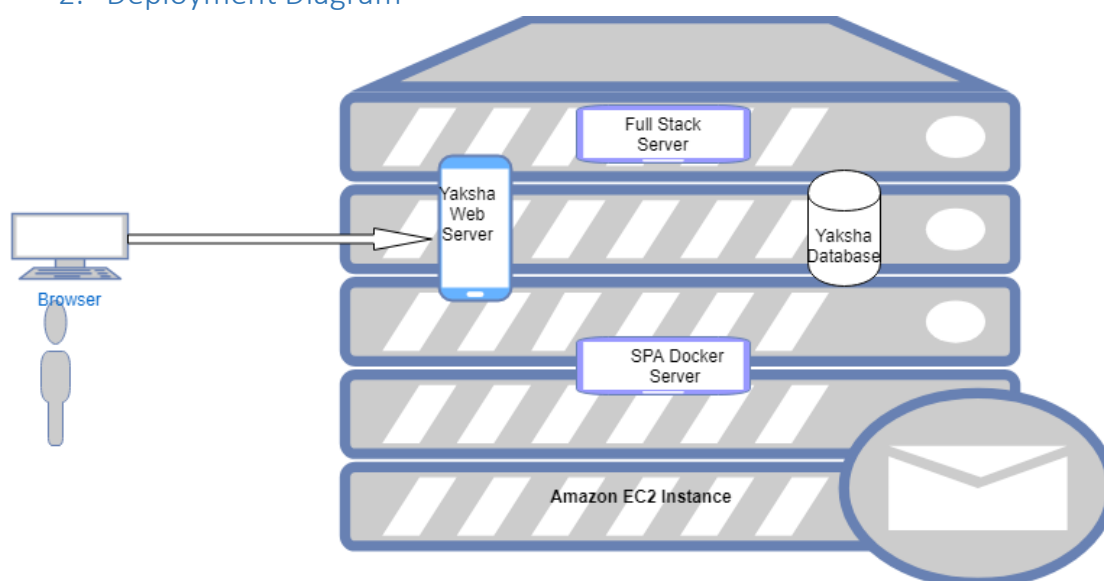
## 1. Overview

Yaksha is a fully blown Assessment platform that tests learners on following type of tests

- McQ
- SPA – Single Page Applications
- Full Stack assignments

This document is a summary of deployment specifics for Yaksha Assessment platform as it is now and listing of all data flows. Each data flow is distinguished by a set of common software component involved irrespective of function – There might be multiple features that might be using the same component flow.

## 2. Deployment Diagram



Infrastructure	Description
Amazon Server - No of CPU Cores	8
Amazon Server - Memory	32 GB
OS Version	Ubuntu 16.04
Value 10	Value 11

Software	Description	Version
Yaksha Web Server/ Database	Tomcat/ MySQL	8+/ 6
Container Software	Docker	18.09.7
SPA (Single Page Server)	NodeJS + Docker	Nodejs - 4.2.6
Full Stack	EclipseChe	6

### 3. Data Flow 1



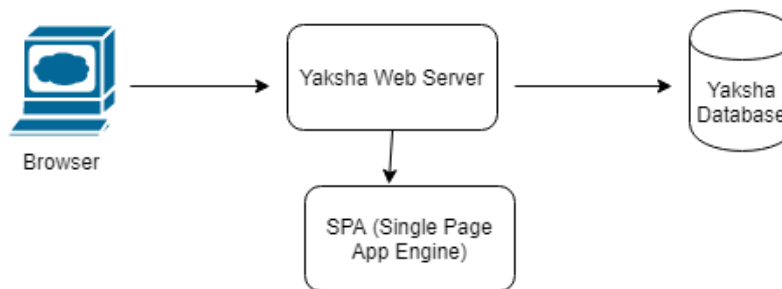
**Administrator**  
1. Questions Set up  
2. Tests Configuration  
3. Tests Scheduling  
4. Tests Sharing  
5. View Reports

**Test Giver**  
1. Go through MCQ Tests

**Full Stack Reviewer**  
1. Review Full Stack Assignemnts by Test Giver

Actors for this flow – Test Admin / Test Giver / Reviewer

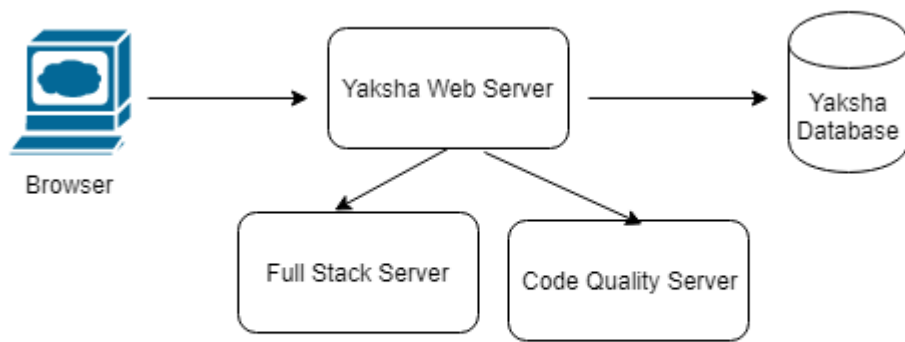
### 4. Data Flow 2



**Test Giver**  
1. Go through Single Page Program Test

SPA – Single Page Application Test : Yaksha has a capability to ask test givers to code a problem statement in one of many programming languages that Yaksha supports. Single page programs are basically, as name suggests, 1 file isolated programs – e.g: Write a Fibonacci series, Arm strong number or so. Single page programs does not depend on third party libraries nor do they require more than 1 files to code a solution.

### 5. Data Flow 3



#### **Test Giver**

##### **1. Complete Fullstack Server**

- a. Test Givers are also asked to complete a full stack test based on Java/.NET/JavaScript/Python/etc languages. Full stack assignments are different vis-à-vis SPA assignments in a way wherein the expectation from test givers is to develop an application spanning front/middle and data tiers. Test givers are allowed full liberty to use any third party library(s) as they deem fit for the purpose of the assignment.
- b. Post the submit of the assignment there are 2 types of reviews that happen
  - a. Automated Code Quality Check through Sonar Code Quality Server
  - b. Manual review on functional and programming/architectural parameters by a manual reviewer (See Data flow 1)