**SWE 645- Assignment 3 (Read Me File)**

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Read me file for installation and setup instructions:-

1. Download Visual Studio and install it. We will be using this as our IDE.
2. Download Node.js for windows (https://nodejs.org/en/download).
3. After that we will use npm installer to install express.js framework which will help us to maintain the code as well as scale the code and provide us inbuild features which vanilla JavaScript doesn’t provide.
4. Then create AWS RDS MySQL database. “<https://us-east-1.console.aws.amazon.com/rds/home?region=us-east-1#database:id=database-1;is-cluster=false> “
5. Then created a Docker Image using “https://hub.docker.com/” and by creating “Dockerfile” in Visual Studio. (The file is present in the folder).
6. Then run and build the docker (all the commands are given in document)
7. The docker image is running and can be seen on “http://localhost:8182”.
8. Created AWS EC2 Instance and IAM user (Detailed are written in document).
9. Then we setup rancher and created Kubernetes cluster.
10. Then we deployed docker Image on the cluster.
11. After deploying we could see our frond end can be seen on:

**Tools used:**

For this project we have used Node.js, JavaScript, React, Visual Studio IDE, Desktop Docker, Rancher, AWS (EC2, IAM, RDS).

**NOTE**: the links will not work now as we have terminated AWS EC2 Instance. So, you can see the whole process in the video and to follow the process we have created a separate documentation.

AWS EC2: <https://us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#Home>

AWS RDS: <https://us-east-1.console.aws.amazon.com/rds/home?region=us-east-1#database:id=database-1;is-cluster=false>

Rancher: <https://ec2-52-90-172-160.compute-1.amazonaws.com/dashboard/home>

Frontend- <http://54.89.149.205:30500/>

Backend- <http://54.91.104.209:30103/feed/getAllpost>