Prerequisites:

1. AWS account
2. Github account
3. pgAdmin Tool
4. putty

Steps:

1. Logon to AWS and launch an EC2 Linux instance, Amazon Linux preferred
   1. Create new keypair, and keep it confidential for further use
   2. Attach default security group while creating the instance
   3. Add inbound rules to allow traffic on port 22
   4. Make sure outbound rules are defined as such to allow all outgoing traffic
   5. Create an Elastic IP address and assign it to this instance, use the Public IP generated for all next connections
2. Logon to AWS and launch one RDS Postgres instance
   1. Create new keypair, and keep it confidential for further use
   2. Attach default security group while creating the instance
   3. Add inbound rules to allow traffic on port 5432
   4. Keep all the default configurations
   5. Provide DB name as ITDebt
3. Connect to RDS instance from pgAdmin
   1. Use end-point generated by AWS while launching the instance
   2. Create table ASSET and insert sample rows *<<script attached herewith>>* 
4. Download code base from <https://github.com/nittessh/cgHackathonItDebt.git>
   1. It includes both backend services and front end
   2. Prepare both the releases locally
   3. Use DB password generated in step 2.1 to configure in application.properties file of backend services
   4. Use Public IP generated in step 1.5 to configure in front end package
5. Connect to EC2 instance using putty for environment setup
   1. Install java *<<sudo yum install java>>*
   2. Install nodejs along with axios package *<<sudo yum install nodejs>> <<npm install axios>>*
   3. Install nginx <<*sudo yum install* nginx >>
   4. Change configuration of nginx to allow reverse proxy *<<configuration attached herewith>>*
   5. Copy codebase prepared in step 4 onto EC2 instance using putty or WinSCP
6. Connect to EC2 instance using putty for starting the application
   1. Start ngnix <<sudo systemctl start nginx>>
   2. Navigate to path of copied backend services folder and start the services *<<java -jar spring-ASM-0.0.1.jar>>*
   3. Navigate to path of copied front end services folder and start the front end react *<<npm start>>*
7. The IT assets app can be accessed via internet using following URL format: http://*<<publicIP>>*:8080/dashboard