**Deployment Steps**

1. Install jdk (jdk-8u131-windows-x64 is used), install tomcat (apache-tomcat-9.0.65 is used)
2. Download certificate from edeskAPI site and save it as “edesk.cer”
3. Import the certificate in JRE cacerts using the below command

keytool -importcert -trustcacerts -alias edesk -file "C:\cert\edesk.cer" -keystore "C:\Program Files\Java\jdk1.8.0\_131\jre\lib\security\cacerts" -storepass changeit

1. Download war edeskwrapper.war and place it in tomcat webapps folder, start the tomcat.
   1. The username,password for getMinimalDetails and API Key for the add requests API are in the application properties – Need to change here (..\Tomcat 9.0\webapps\edeskwrapper\WEB-INF\classes\application.properties) specific to the targeted API environment.
      1. edesk.user.api.endpoint=https://users-api.kfupm.edu.sa
      2. edesk.user.api.username=ivr\_system
      3. To generate the password for user API, we need to use the actual password and value of jasypt.encryptor.password. Open [https://www.devglan.com/online-tools/jasypt-online-encryption-decryption](about:blank) and use two way encryption with secret text with the original password and jasypt.encryptor.password. The encrypted value is then placed in below application property in format ENC(<encrypted password>)

edesk.user.api.password=ENC(NRvSwGiXpCE/pg4semtMegertCHtTTtWdEhYLKrT+8BNrhejGVGPBPPD5Jv1u7kHIn2a1rYqA1uCzHsjyFDAhZwDUXCQlZ+N)

* 1. The API endpoint and token for the add request API specific to the targeted environment needs to be mentioned in below application properties
     1. edesk.api.endpoint=https://edesk.kfupm.edu.sa
     2. To generate the token for add request API , we need to use the actual API key and value of jasypt.encryptor.password. Open [https://www.devglan.com/online-tools/jasypt-online-encryption-decryption](about:blank) and use two way encryption with secret text with the original API key and jasypt.encryptor.password .The encrypted value is then placed in below application property in format ENC(<encrypted api key>)

edesk.api.token=ENC(xYgHNHt+qWe+Gt0bgDnPQDbMq0C4zNCwRGanG2utKizkrcrqhaefxvkgrKp+7UHW)

* 1. The digits to subject and description mapping are also stored in the property as configurable if needed.

After the properties are modified, the tomcat needs to be restarted for changes to reflect.

1. Download postman, try hitting the below wrapper API and verify the response

http://10.253.4.234:9090/edeskwrapper/api/request?digits=1&kfupmid=6990510