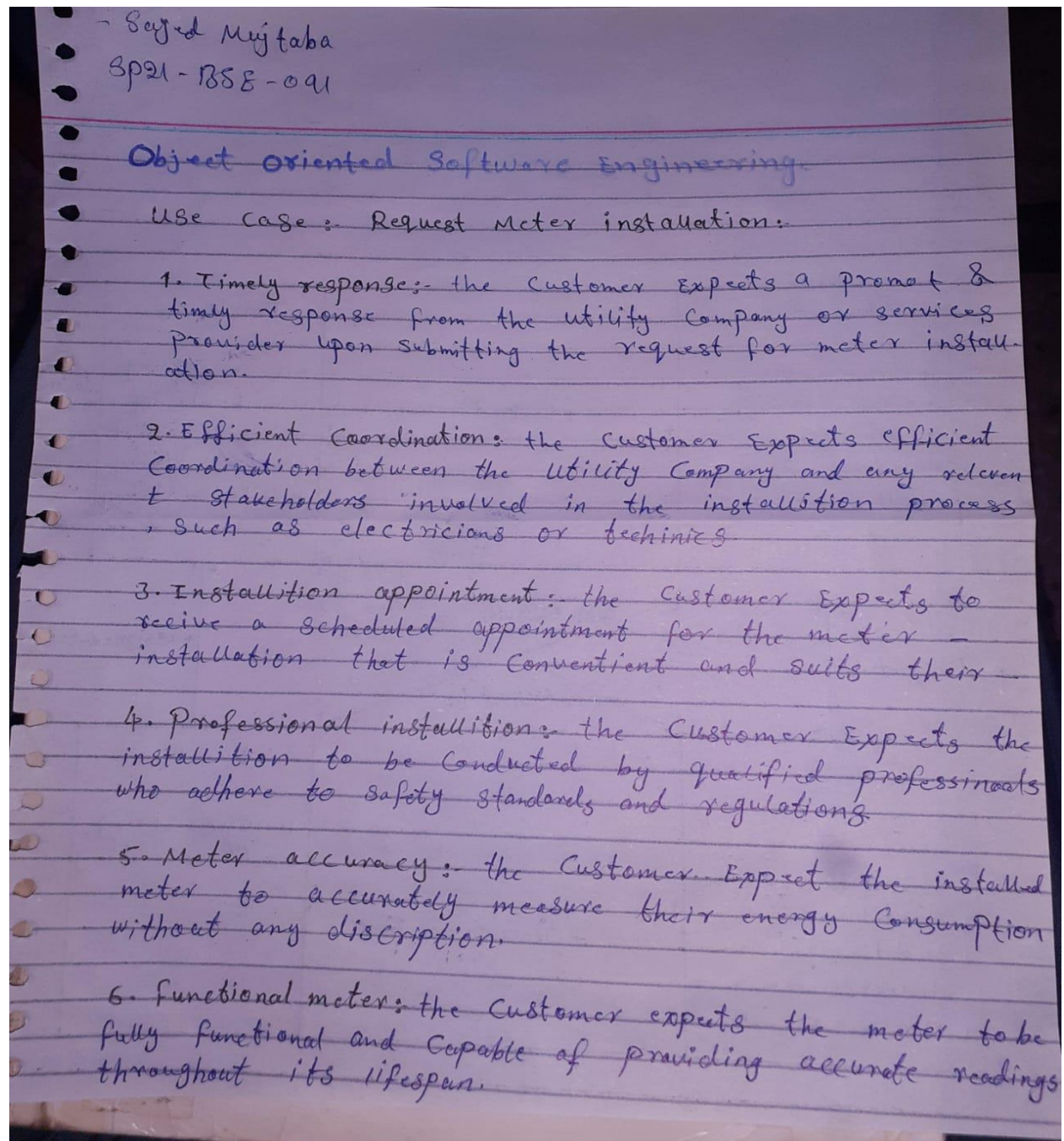# Mid Lib

Name: Sayed Mujtaba
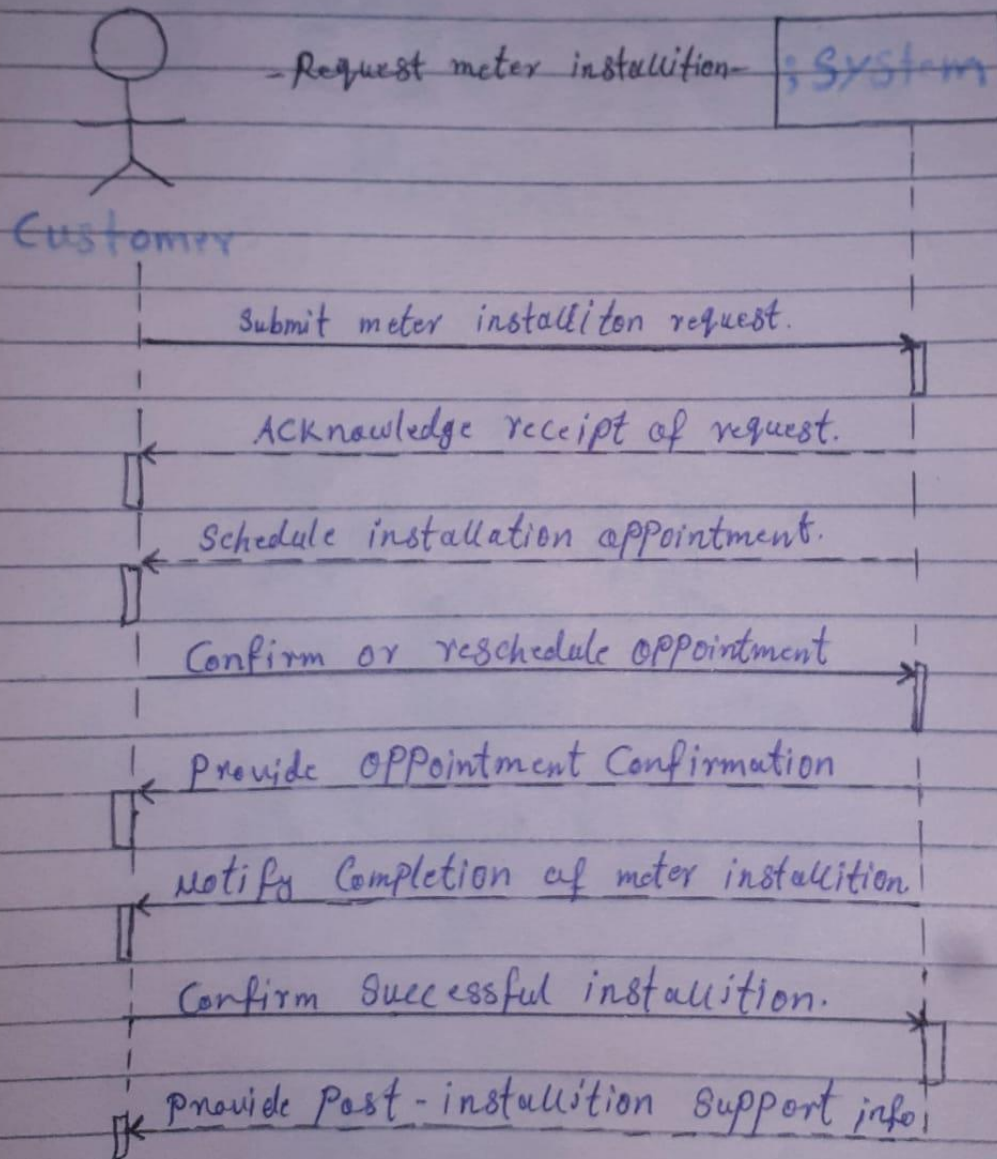
Reg NO: SP21-BSE-091

Screenshot of main success scenario and following Use case SSD:
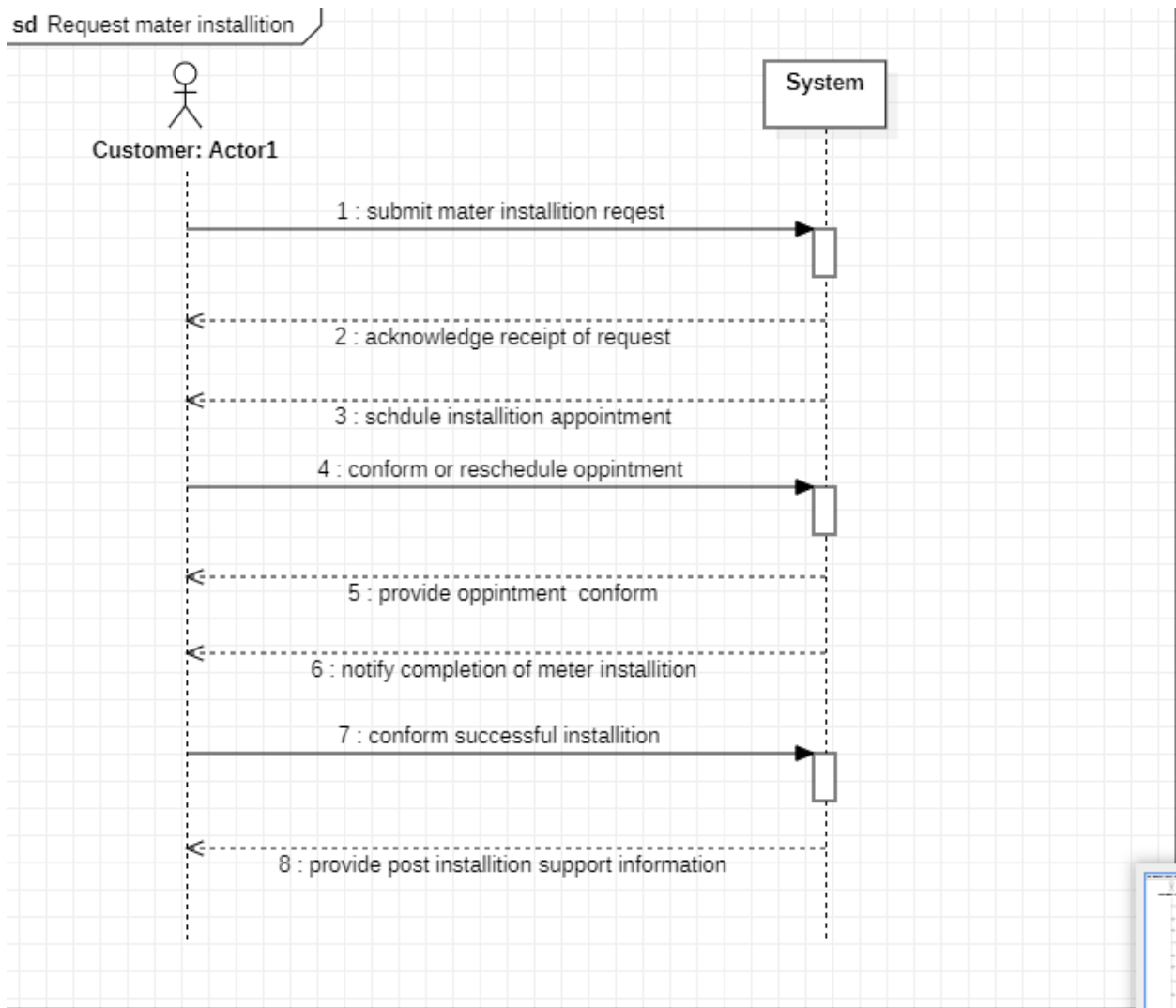

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Object Oriented Software Engineering.

Use case: Request Meter installation:

1. Timely response:- the Customer Expects a prompt & timly response from the utility Company or services provider upon submitting the request for meter installation.

2. Efficient Coordination: the Customer Expects efficient Coordination between the utility Company and any relevent stakeholders involved in the installition process, such as electricians or techinics.

3. Installition appointment: the Customer Expects to recive a scheduled appointment for the meter installation that is Conventient and suits their.

4. Professional installition: the Customer Expects the installition to be Conducted by quatified professinaels who adhere to safety standards and regulations.

5. Meter accuracy: the Customer Expect the installed meter to accurately measure their energy Consumption without any discription.

6. Functional meter: the Customer expects the meter to be fully functional and Copable of praviding accurate readings throughout its lifespan.

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SSD For Request meter Installition

Customer ... System

- Request meter installition -

Submit meter installiton request.

Acknowledge receipt of request.

Schedule installation appointment.

Confirm or reschedule appointment

Provide appointment Confirmation

Notify Completion of meter installition.

Confirm Successful installition.

Provide Post-installition Support info

SSD of Request mater installation:

sd Request mater installition

Customer: Actor1 → System

1 : submit mater installition reqest

2 : acknowledge receipt of request

3 : schdule installition appointment

4 : conform or reschedule oppintment

5 : provide oppintment conform

6 : notify completion of meter installition

7 : conform successful installition

8 : provide post installition support information

Prototype of Request meter installation:

```java
1
2      package javaapplication1;
3
4    ☐ import javax.swing.*;
5      import java.awt.*;
6      import java.awt.event.*;
7    └ import java.lang.Exception;
8
9      //create CreateLoginForm class to create login form
10     //class extends JFrame to create a window where our component add
11     //class implements ActionListener to perform an action on button click
12     class CreateLoginForm extends JFrame implements ActionListener
13     {
14         //initialize button, panel, label, and text field
15         JButton b1;
16         JPanel newPanel;
17         JLabel userLabel, passLabel;
18         final JTextField  textField1, textField2;
19
20         //calling constructor
21         CreateLoginForm()
22    ☐    {
23
24             //create label for username
```

```java
25             userLabel = new JLabel();
26             userLabel.setText("Username");        //set label value for textField1
27
28             //create text field to get username from the user
29             textField1 = new JTextField(15);       //set length of the text
30
31             //create label for password
32             passLabel = new JLabel();
33             passLabel.setText("Password");         //set label value for textField2
34
35             //create text field to get password from the user
36             textField2 = new JPasswordField(15);     //set length for the password
37
38             //create submit button
39             b1 = new JButton("SUBMIT"); //set label to button
40
41             //create panel to put form elements
42             newPanel = new JPanel(new GridLayout(3, 1));
43             newPanel.add(userLabel);        //set username label to panel
44             newPanel.add(textField1);     //set text field to panel
45             newPanel.add(passLabel);      //set password label to panel
46             newPanel.add(textField2);     //set text field to panel
47             newPanel.add(b1);             //set button to panel
48
```

```java
class LoginFormDemo
{
    //main() method start
    public static void main(String arg[])
    {
        try
        {
            //create instance of the CreateLoginForm
            CreateLoginForm form = new CreateLoginForm();
            form.setSize(300,100);   //set size of the frame
            form.setVisible(true);   //make form visible to the user
        }
        catch(Exception e)
        {
            //handle exception
            JOptionPane.showMessageDialog(null, e.getMessage());
        }
    }
}
```