



Date Sheet Builder



Agenda

- Main Functions of Code
- Key Components
- How DateSheet Builder Look's



Main **Functions** of The Code..

1. The class **DateSheetBuilder** is used to create a Simple Application for Building a Date Sheet.
2. It allows users to input **subject names** and their respective **start dates** and displays them in a table format.

```
public class DateSheetBuilder extends JFrame {  
    private List<Exam> exams;  
    private DefaultTableModel tableModel;  
    private JTextField subjectNameField;  
    private JTextField startDateField;  
    private JTable table;  
  
    public DateSheetBuilder() {  
        exams = new ArrayList<>();  
        setTitle("Datesheet Builder");  
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);  
        setSize(800, 300);  
        setLayout(new BorderLayout());  
    }  
}
```



Key Components


- Exam Class
- CenterBoldTableCellRenderer Class
- DateSheetBuilder Class (Main Class)
 - Exams
 - Table Model
 - Subject Name Field
 - Start Date Field
 - Table
 - Add Exam Button



Exam Class

```
class Exam {  
    private String subjectName;  
    private String startDate;  
  
    public Exam(String subjectName, String startDate) {  
        this.subjectName = subjectName;  
        this.startDate = startDate;  
    }  
  
    public String getSubjectName() {  
        return subjectName;  
    }  
  
    public String getStartDate() {  
        return startDate;  
    }  
}
```

This class represents an exam class with attributes for **subject name** and **start date**.





CenterBoldTableCellRenderer Class

This class is a custom cell renderer used to **center-align** and make **text bold** in table cells.

```
class CenterBoldTableCellRenderer extends DefaultTableCellRenderer {  
    public CenterBoldTableCellRenderer() {  
        setHorizontalAlignment(SwingConstants.CENTER);  
        setFont(getFont().deriveFont(Font.BOLD));  
    }  
}
```



DateSheetBuilder Class (Main Class):

This class represents the main application window and contains the following components:

```
public class DateSheetBuilder extends JFrame {  
    private List<Exam> exams;  
    private DefaultTableModel tableModel;  
    private JTextField subjectNameField;  
    private JTextField startDateField;  
    private JTable table;  
  
    public DateSheetBuilder() {  
        exams = new ArrayList<>();  
        setTitle("Datesheet Builder");  
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);  
        setSize(800, 300);  
        setLayout(new BorderLayout());  
    }  
}
```

```
JPanel inputPanel = new JPanel(new FlowLayout());  
JLabel subjectLabel = new JLabel("Subject Name:");  
JLabel startDateLabel = new JLabel("Start Date (DD-MM-YYYY):");  
subjectNameField = new JTextField(15);  
startDateField = new JTextField(15);  
JButton addButton = new JButton("Add Exam");  
addButton.addActionListener(new ActionListener() {  
    @Override  
    public void actionPerformed(ActionEvent e) {  
        addExam();  
    }  
});
```



Add Exam Button

Allows Users to Add the **Subject** to the Table

```
 JButton addButton = new JButton("Add Exam");
 addButton.addActionListener(new ActionListener() {
     @Override
     public void actionPerformed(ActionEvent e) {
         addExam();
     }
 });
```


How DateSheet Builder Look's

Datesheet Builder

Subject Name:

Start Date (DD-MM-YYYY):

Add Exam

Subject Name	Date
Java	18-08-2023
Automata	23-08-2023
Microprocessor	25-08-2023



Thank you !