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1  import javax.swing.*;
2  import javax.sound.sampled.*;
3  import java.awt.*;
4  import java.awt.event.ActionEvent;
5  import java.awt.event.ActionListener;
6  import java.util.Calendar;
7  import java.util.Timer;
8  import java.util.TimerTask;
9
10 public class ReminderApp {
11     private JFrame frame;
12     private JComboBox<String> dayComboBox;
13     private JComboBox<String> timeComboBox;
14     private JComboBox<String> activityComboBox;
15     private JButton setReminderButton;
16
17     public static void main(String[] args) {
18         SwingUtilities.invokeLater(() -> new ReminderApp().createAndShowGUI());
19     }
20
21     private void createAndShowGUI() {
22         frame = new JFrame("Reminder App");
23         frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
24         frame.setSize(300, 200);
25         frame.setLayout(new GridLayout(4, 2));
26
27         String[] days = {"Monday", "Tuesday", "Wednesday", "Thursday",
28 "Friday", "Saturday", "Sunday"};
29         dayComboBox = new JComboBox<>(days);
30         frame.add(new JLabel("Select Day:"));
31         frame.add(dayComboBox);
32
33         String[] times = {
34             "06:00", "07:00", "08:00", "09:00", "10:00", "11:00", "12:00",
35             "13:00", "14:00", "15:00", "16:00", "17:00", "18:00", "19:00",
36             "20:00", "21:00", "22:00", "23:00"
37         };
38         timeComboBox = new JComboBox<>(times);
39         frame.add(new JLabel("Select Time:"));
40         frame.add(timeComboBox);
41
42         String[] activities = {"Wake up", "Go to gym", "Breakfast", "Meetings",
43 "Lunch", "Quick nap", "Go to library", "Dinner", "Go to sleep"};
44         activityComboBox = new JComboBox<>(activities);
45         frame.add(new JLabel("Select Activity:"));
46         frame.add(activityComboBox);
47
48         setReminderButton = new JButton("Set Reminder");
49         setReminderButton.addActionListener(new ReminderButtonListener());
50         frame.add(setReminderButton);
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49         frame.setVisible(true);
50     }
51
52
53     private class ReminderButtonListener implements ActionListener {
54         @Override
55         public void actionPerformed(ActionEvent e) {
56             String selectedDay = (String) dayComboBox.getSelectedItem();
57             String selectedTime = (String) timeComboBox.getSelectedItem();
58             String selectedActivity = (String)
activityComboBox.getSelectedItem();
59
60             if (selectedDay != null && selectedTime != null && selectedActivity
!= null) {
61                 setReminder(selectedDay, selectedTime, selectedActivity);
62             }
63         }
64
65         private void setReminder(String day, String time, String activity) {
66             String[] timeParts = time.split(":");
67             int hour = Integer.parseInt(timeParts[0]);
68             int minute = Integer.parseInt(timeParts[1]);
69
70             Calendar now = Calendar.getInstance();
71             Calendar reminderTime = Calendar.getInstance();
72
73             reminderTime.set(Calendar.HOUR_OF_DAY, hour);
74             reminderTime.set(Calendar.MINUTE, minute);
75             reminderTime.set(Calendar.SECOND, 0);
76
77             // Set the day of the week for the reminder
78             int dayOfWeek = getDayOfWeek(day);
79             reminderTime.set(Calendar.DAY_OF_WEEK, dayOfWeek);
80
81             if (reminderTime.before(now)) {
82                 reminderTime.add(Calendar.WEEK_OF_YEAR, 1);
83             }
84
85             Timer timer = new Timer();
86             TimerTask task = new TimerTask() {
87                 @Override
88                 public void run() {
89                     playSound();
90                     JOptionPane.showMessageDialog(frame, "Reminder: " +
activity);
91                 }
92             };
93
94             long delay = reminderTime.getTimeInMillis() -
now.getTimeInMillis();
95             timer.schedule(task, delay);
```

```
96     }
97
98     private int getDayOfWeek(String day) {
99         switch (day) {
100             case "Monday": return Calendar.MONDAY;
101             case "Tuesday": return Calendar.TUESDAY;
102             case "Wednesday": return Calendar.WEDNESDAY;
103             case "Thursday": return Calendar.THURSDAY;
104             case "Friday": return Calendar.FRIDAY;
105             case "Saturday": return Calendar.SATURDAY;
106             case "Sunday": return Calendar.SUNDAY;
107             default: return Calendar.MONDAY;
108         }
109     }
110
111     private void playSound() {
112         try {
113             AudioInputStream audioInputStream =
114             AudioSystem.getAudioInputStream(getClass().getResource("chime.wav"));
115             Clip clip = AudioSystem.getClip();
116             clip.open(audioInputStream);
117             clip.start();
118         } catch (Exception ex) {
119             ex.printStackTrace();
120         }
121     }
122 }
123
```