Projekt

Objektorientierte Programmierung:

```
private void addEntry(String text) {
    entries.add(text);
    LocalDate date = LocalDate.of(year, month, day);
    String isoDate = date.toString(); // YYYY-MM-DD
    String formattedForServer = isoDate + "|" + text;
    CalenderEntry entryView = new CalenderEntry(text, formattedForServer)
    entryBox.getChildren().add(entryView);
    System.out.println("New Task: " + formattedForServer);
    NetworkManager.sendTask(formattedForServer);
}
```

RegExp

```
return matches;
}
```

Collections

```
CalenderDayCell:
private final List<String> entries = new ArrayList<>();
entries.add(text);
```

Exception

```
public static boolean connect() {
    try {
        socket = new Socket(SERVER_ADDRESS, PORT);
        out = new PrintWriter(socket.getOutputStream(), true);
        in = new BufferedReader(new InputStreamReader(socket.getInputStreamreturn true;
    } catch (IOException e) {
        System.err.println("Connection error: " + e.getMessage());
        return false;
    }
}
```

Threads

```
try (ServerSocket serverSocket = new ServerSocket(PORT)) {
    while (true) {
        Socket socket = serverSocket.accept();
        System.out.println("- Client connected: " + socket.getInetAddress()...
        new Thread(() → handleClient(socket)).start();
    }
} catch (IOException e) {
    System.err.println("Error: " + e.getMessage());
}
```

Sockets

```
Server:
public static void main(String[] args) {
    loadUsers();
    System.out.println("- Server started on port: " + PORT);
    try (ServerSocket serverSocket = new ServerSocket(PORT)) {
       while (true) {
         Socket socket = serverSocket.accept();
         System.out.println("- Client connected: " + socket.getInetAddress().
         new Thread(() → handleClient(socket)).start();
    } catch (IOException e) {
       System.err.println("Error: " + e.getMessage());
Client:
public static boolean connect() {
    try {
       socket = new Socket(SERVER_ADDRESS, PORT);
       out = new PrintWriter(socket.getOutputStream(), true);
       in = new BufferedReader(new InputStreamReader(socket.getInputStreamReader)
       return true;
    } catch (IOException e) {
       System.err.println("Connection error: " + e.getMessage());
       return false;
    }
```

Sonstiges

CSS

```
scene.getStylesheets().add(getClass().getResource("/style.css").toExternalForpopupStage.setScene(scene);
popupStage.showAndWait();

accountBtn.setStyle(
    "-fx-background-color: #d0ddff;" +
    "-fx-text-fill: black;" +
    "-fx-font-size: 16px;" +
    "-fx-font-weight: bold;" +
    "-fx-padding: 8 20 8 20;" +
    "-fx-background-radius: 50;"
);
```

Einfachheit

```
String line;

while ((line = in.readLine()) != null) {

String[] parts = line.split("\\|");

if (parts.length == 0) {

out.println("ERROR");

continue;

}

String command = parts[0];

switch (command) {

case "login" → handleLogin(parts, out);

case "task" → handleTask(parts, out);

case "signup" → handleSignup(parts, out);

case "account" → handleAccount(parts, out);

case "config" → handleConfig(parts, out);

default → out.println("ERROR");

}
```