# SWEN2 Tour Planner – Protokoll

## App Architecture

## Use Cases

## UX-Design & Wireframes (Done)

### Select Tour

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KI-generierte Inhalte können fehlerhaft sein.



When a Tour is selected, its information is shown to its right.

### Add Tour

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KI-generierte Inhalte können fehlerhaft sein.



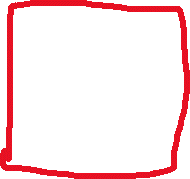
On clicking the “Add” button, the user gets write permission on Tour Fields.

“Cancel” button shows up and “Add” button gets renamed to “Confirm”.

### Edit Tour

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KI-generierte Inhalte können fehlerhaft sein.



On clicking the “Edit” button, user gets write permission on “Description”, “From:”, “To:”, “Transport Type:“ fields.

“Cancel” button shows up and “Edit” button gets renamed to “Apply”.

### Delete Tour



### Ein Bild, das Text, Screenshot, Software, Computersymbol enthält. KI-generierte Inhalte können fehlerhaft sein.



When pressing the “Delete” button the currently selected tour will be deleted. (For this example, we will not delete)

### Individual Tours and Tour Logs

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KI-generierte Inhalte können fehlerhaft sein.



Each Tour has its own information and own Tour Logs.

### Add Tour Log

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KI-generierte Inhalte können fehlerhaft sein.



On clicking the “Add Log” button, a new Tour Log is shown. User must fill in sensible information and confirm to add the Tour Log.

“Cancel” button shows up and “Add Log” button gets renamed to “Confirm”.

### IMG 6 – Edit Tour Log

Ein Bild, das Text, Screenshot, Software, Computersymbol enthält.

KI-generierte Inhalte können fehlerhaft sein.

On clicking the “Edit Log” button, User gets write permission over the selected Tour Log.

“Cancel” button shows up and “Edit Log” button gets renamed to “Confirm”.

### Delete Tour Log

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KI-generierte Inhalte können fehlerhaft sein.



When pressing the “Delete Log” button the currently selected Tour Log will be deleted.

### Validations

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KI-generierte Inhalte können fehlerhaft sein.

On confirming/applying, validations are included as mentioned in the project requirements. (the examples shown are only a small part of all validations implemented)

## Library Decisions

## Design Pattern

## Unit Testing

### Testing Strategy

For our unit testing, we decided to **focus entirely on the MainModel class**, as it contains most of the application logic. Testing this class allows us to verify the most important business rules without relying on UI components.

### Why MainModel?

* Core application logic
* Bridge between JavaFX UI and service layer
* Validates input
* Implements derived logic (popularity, child-friendliness)

### What we tested

* **addTour** – *Scenario*: success, missing name, duplicate name
* **addTourLog** – *Scenario*: success, missing comment
* **editTour** – *Scenario*: success, invalid input
* **editTourLog** – *Scenario*: success, failure
* **deleteTour** – Scenario: success, failure
* **deleteTourLog** – *Scenario*: success, failure
* **setTourPopularity** – *Scenario*: success
* **setTourChildFriendliness** – *Scenario*: success, no Logs
* **addTourLogPreCheck** – *Scenario*: success, no Tour selected
* **importTourJson** – *Scenario*: success, invalid content, invalid Json

### Mocking and Isolation

* We used Mockito to mock the TourService and TourLogService classes
* We used reflection to set private fields (currentTourLog)

### Coverage

* 21 Unit Tests
* Covered nearly all public methods of the MainModel class
* Covered success and failure paths

## Unique Feature

## Tracked Time

Plachetzky Nicolai:

Anzola Fabio:

## Git-Link (Done)

https://github.com/fabio-anzola/TourPlanner.git