Project Plan

Introduction
The main purpose of this project is to build a fully functional Timeline Manager App. This document is created to plan this project and document it properly.

Project Tasks / Milestones
The implementation is split into seven big steps, and each big step is divided into Tasks and subtasks for a better structure. Estimated time for completing each milestone is listed below. The estimated time for completing each Task is documented in the separate document called Time log.

<u>Milestones and estimated time</u>
Plan and Organization: 3 weeks
Iteration #1: 7 days
Iteration #2: 8 days
Iteration #3: 7 days
Iteration #4: 7 days
Iteration #5: 11 days
Pre-Delivery: 6 days (final fixes/pushed issues)

Work Breakdown Structure

Plan and Organization

Task 1 – Planning
- Planning the subtasks A, B and C

    Subtask A - Setup
    - Select a Project Manager
    - Setup a GitHub repository
    - Analysis document (draft)

    Subtask B – Documents
    - Analysis Document (final)
    - High-level design (draft)

    Subtask C – Documents final
    - High-level design (final)

Task 2 – Vision
- Writing a Vision document

Task 3 – Project Plan
- Creating the Project Plan document (this document). This document will be updated until the whole project and Timeline Manager App is finished.

Iteration #1

Task 1 – Planning
- Creating an Iteration/Implementation Plan
- Planning Subtasks A, B and C for Task 2

Task 2 – Implementation

Subtask A – AppModel
- Creating a class AppModel, which contains a List with timelines and the Methods add and remove Timeline

Subtask B – TimelineModel
- Creating a class TimelineModel, which contains a List with Events, fields for the Dates and Methods add and remove Event

Subtask C – EventModel
- Creating a class EventModel, which contains fields for the Dates, Name and Description and related getters and setters

Task 3 – Tests
- Creating Test Cases for the Implementation
- Unit Test the implemented Methods

Task 4 – Update Documents
- Updating the Detailed Design Diagram

Iteration #2

Task 1 – Planning
- Planning Subtasks A, B and C for Task 2

Task 2 – Implementation

Subtask A – AppModel
- Updating the AppModel class and creating the related AppController and AppView

Subtask B – TimelineModel
- Updating the class TimelineModel, and creating the related TimelineController and TimelineView

Subtask C – TimelinePopup
- Creating a class TimelinePopup and the related TimelinePopupView and TimelinePopupController. These handle the Popup window where the User is able to enter the Name and Start and End Date of a Timeline

Task 3 – XML conversion
- Creating the JAXB Marshaller and Unmarshaller

Task 4 – Tests
- Creating Test Cases for the Implementation
- Manual tests for testing functionality

Task 5 – Update Documents
- Project Plan (this document)
- Iteration/Implementation Plan
- Detailed Design Diagram

Iteration #3

Task 1 – Planning
- Planning Subtasks A, B and C for Task 2

Task 2 – Implementation

Subtask A – TimelineModel
- Updating the TimelineModel class and the related TimelineController and TimelineView

Subtask B – EventModel
- Updating the class EventModel, and creating the related EventController and EventView

Subtask C – EventPopup
- Creating a class EventPopup and the related EventPopupView and EventPopupController. These handle the Popup window where the User is able to enter the Name, Description and Start and End Date of an Event

Task 3 – XML conversion
- Fixing the JAXB Marshaller and Unmarshaller and implementing a FileChooser

Task 4 – Tests
- Creating Test Cases for the Implementation
- Manual tests for testing functionality

Task 5 – Update Documents
- Project Plan (this document)
- Iteration/Implementation Plan
- Detailed Design Diagram
- Analysis document for better traceability
- Test Plan

Iteration #4

Task 1 – Planning
- Planning Subtasks A, B and C for Task 2

Task 2 – Implementation

Subtask A – Background
- Fixing the background in AppView and adding the days of the months at the top

Subtask B – Buttons
- Fixing the buttons for Timeline and Event. (weren't visible before)

Subtask C – Date Validation for Event
- Validate the Dates so that the User sees a Warning message when he enters the Start Date of the Event before the Start Date or after the End Date of the Timeline. And enters the End Date of the Event before the Start Date or after the End Date of the Timeline

Task 3 – XML conversion
- Fixing the JAXB Marshaller / Unmarshaller / FileChooser and connect it with the AppModel

Task 4 – Tests
- Creating Test Cases for the Implementation
- Manual tests for testing functionality

Task 5 – Update Documents
- Project Plan (this document)
- Iteration/Implementation Plan
- Updating the Detailed Design Diagram
- Updating the Test Plan

Iteration #5

Task 1 – Planning
- Planning Subtasks A and B for Task 2
- Planning the XML Integration

Task 2 – Implementation

Subtask A – Date Bar
- adding the months over the days of the months

Subtask B – Date Validation for Timeline
- Validate the Dates so that the User sees a Warning message when he modifies the Timeline Dates and tries to change the Start Date of the Timeline after the Start Date of the Event, or tries to enter the End Date of the Timeline before the End Date of the Event.

Task 3 – XML
- Fixing the FileIO class and starting the Integration into the system

Task 4 – Tests
- Creating Test Cases for the Implementation
- Manual tests for testing functionality

Task 5 – Update Documents
- Project Plan (this document)
- Iteration/Implementation Plan
- Detailed Design Diagram
- Test Plan

Pre - Delivery

Task 1 – Planning
- Planning Subtasks A and B for Task 2
- Planning the XML Integration

Task 2 – Implementation

Subtask A – View of the End Date for Timeline and Event
- When the User adds a Timeline or an Event the End Date goes until the end of the Date

Subtask B – Datepicker validation
- The User is no longer able to pick non-valid Dates, so no warning message is displayed either

Task 3 – XML
- XML/FileIO final integration so that it works fully

Task 4 – Tests
- Creating Test Cases for the final delivery
- Manual tests for testing functionality

Task 5 – Update Documents
- Project Plan (this document)
- Iteration/Implementation Plan

- Detailed Design Diagram
- Test Plan

Task 6 – Preparing Presentation
- PowerPointPresentation
- Video Recording

Summary
The main purpose of this project is to build a fully functional Timeline Manager App. The User will be able to add, modify and remove Timelines and Events from this App. Furthermore he will be able to save and load the existing Timelines and Events on his device. This document was created to plan this project and document it properly.