

World Creator

Integrated Development Environment For Writers

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ACKNOWLEDGEMENT

First of all, I would like to thank my lecturer Nurlan Shaidullaev for helping me to acquire some basic knowledge of “Java Programming Language”. At the same time, he gave me the opportunity to learn something new related to our module like constructors, methods, arrays, JFrames etc. Beside from my lecturer, I like to thank my other classmates for helping to understand the assignment related questions more clearly. They gave their best for completing this report on time. I thank them for their efforts.

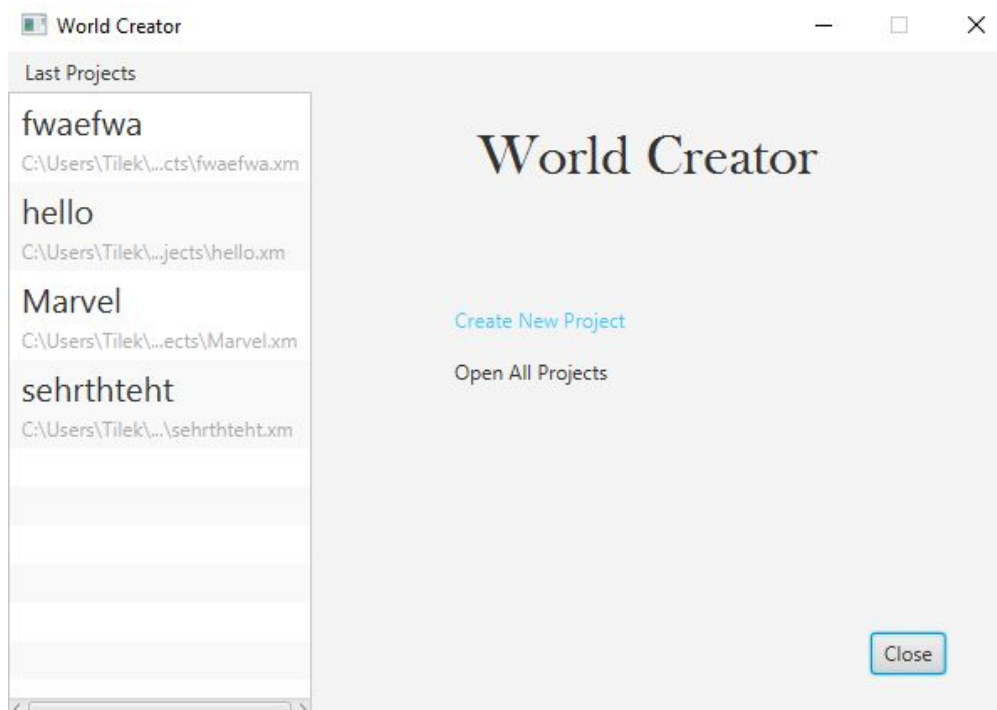
INTRODUCTION

This assignment based on developing the Integrated Development Environment for writes. World Creator is a special environment with special tools for writing any kind of stories and novels. IDE has a bunch of useful tools like characters list, book timeline, description fields and so on. Idea of this program was borrowed from an IDE for programmers which is very useful during programming process.

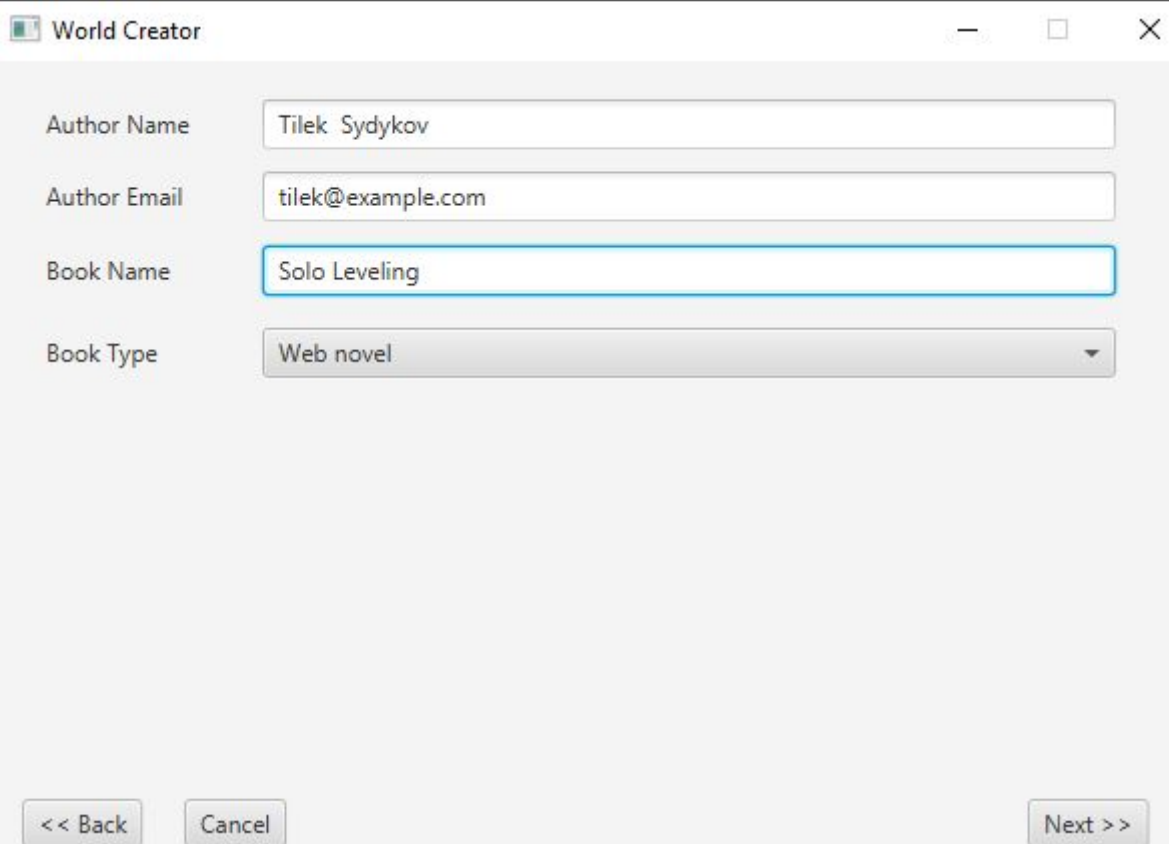
World Creator are not making novel for you, it is creating a comfortable environment for working and not allow you to make a silly mistakes.

EXPLANATIONS

When we open a new the program we will see one window where user can choose open of recent projects or create new one. For creating new project user need to click on “Create new project” link .



Step 1. Creating new Project. In this window user can choose Author Name and Email, book name and type. After this action program will create a new xml file with all stuff needed for this project and redirect user to main program where user can create.

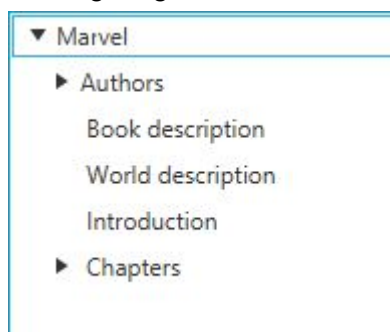


The screenshot shows a window titled "World Creator" with a standard Windows title bar (minimize, maximize, close buttons). The window contains a form with four input fields and a dropdown menu:

- Author Name:** A text input field containing "Tilek Sydykov".
- Author Email:** A text input field containing "tilek@example.com".
- Book Name:** A text input field containing "Solo Leveling". This field is highlighted with a blue border.
- Book Type:** A dropdown menu with "Web novel" selected.

At the bottom of the window, there are three buttons: "<< Back" on the left, "Cancel" in the center, and "Next >>" on the right.

In main program window we can see the the main Tree View with project structure. Here user can choose which part of book to edit. Onclick of any tree item new tab will be added to working stage.



Author Editing. If user click to Tree Item of Author in work area will be added a tab with Author settings where user can edit Author information.

The screenshot shows a web application interface. On the left is a sidebar with a tree view containing 'Marvel', 'Authors', 'Bakkeldi Orozbekov', 'Book description', 'World description', 'Introduction', and 'Chapters'. The 'Bakkeldi Orozbekov' item is selected. The main area has a tab titled 'Bakkeldi Orozbekov : Author X'. Below the tab is a form titled 'Author Settings' with a 'Save Changes' button. The form contains two input fields: 'Name' with the value 'Bakkeldi Orozbekov' and 'Email' with the value 'bakkeldi.orzobekov@mail.ru'.

In click on Book Description Item there will be Editable tab of book description.

The screenshot shows the same web application interface. The sidebar tree view is the same, but 'Book description' is now selected. The main area has two tabs: 'Bakkeldi Orozbekov : Author' and 'Marvel : Book description X'. The 'Marvel : Book description X' tab is active, showing a form titled 'Edit Book Description'. The form contains a text area with the placeholder text 'This is cool book description'.

Also in every book we have own world with own laws and description. And it is very important point for every writer. The world should has own laws, animals, natural disasters and so on.

The screenshot shows the same web application interface. The sidebar tree view is the same, but 'World description' is now selected. The main area has three tabs: 'Bakkeldi Orozbekov : Author', 'Marvel : Book description', and 'Marvel : World Description X'. The 'Marvel : World Description X' tab is active, showing a form titled 'Edit World Description'. The form contains a text area with the placeholder text 'Here is World Description'.

Introduction to book. Introduction is also very important point of any book where Author need to ask himself “What will be if ... ?”. And if he will ask right question he can easy interested people on his work.

▼ Marvel

▼ Authors

Bakkeldi Orozbekov

Book description

World description

Introduction

► Chapters

Bakkeldi Orozbekov : Author

Marvel : Book description

Marvel : World Description

Introduction X

chapter 1 MyStory

Chapters

Book Introduction

Here is introduction

Save

Chapters. There user can manage chapters and create new one.

▼ Marvel

► Authors

Book description

World description

Introduction

► Chapters

Bakkeldi Orobekov : Author

Marvel : Book description

Marvel : World Description

Introduction

chapter 1 MyStory

Chapters X

Title

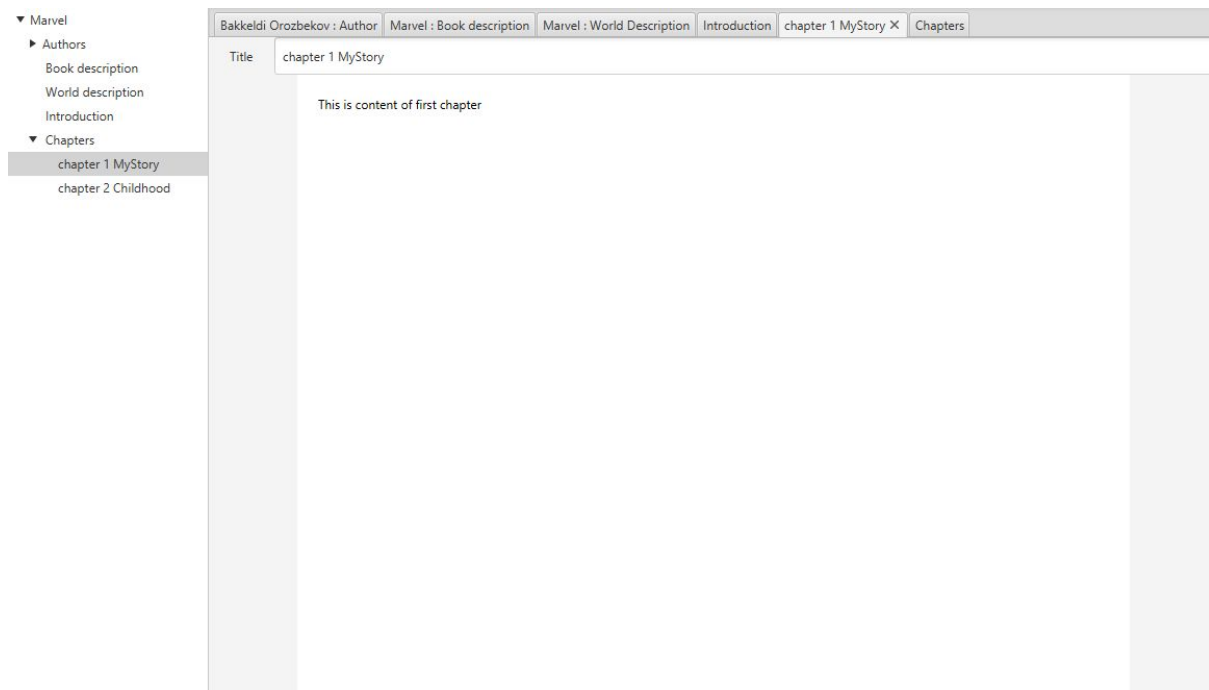
chapter 3 Man in black

Button

chapter 1 MyStory

chapter 2 Childhood

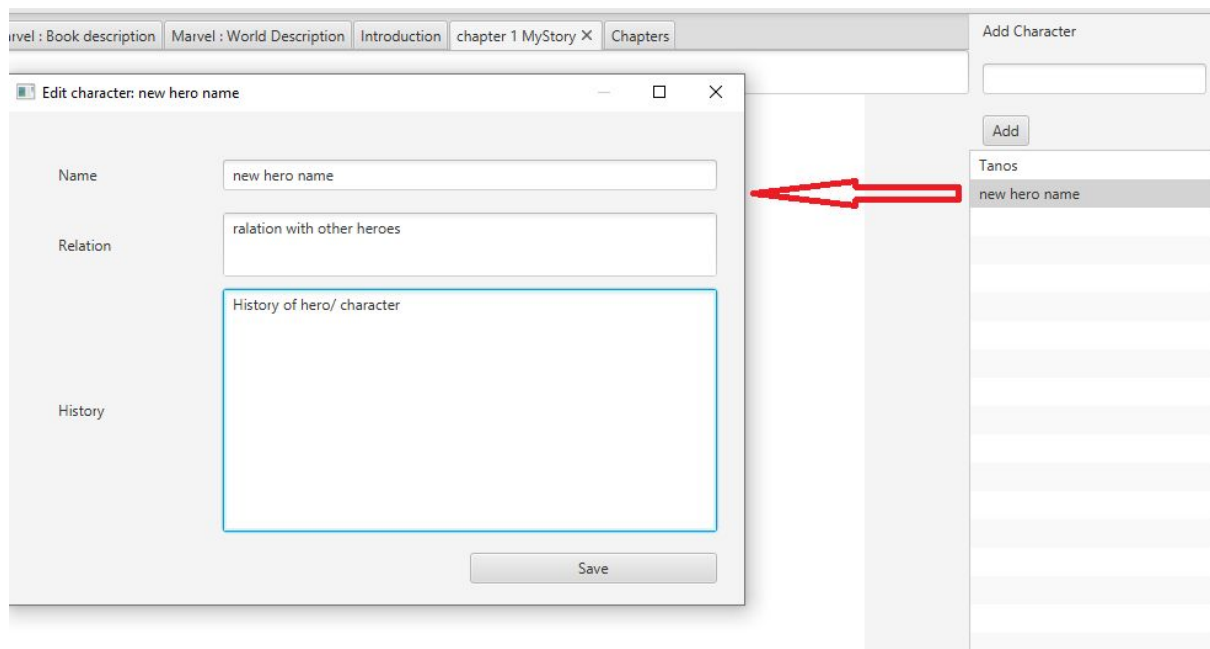
If user click to chapter name in menu of chapters. He get access to edit tab of chapter.



In right corner of Programs window is form for adding new character. Type name of character in text Area and click “add” to add new character to list.

The screenshot shows a form titled 'Add Character'. It contains a text input field with the placeholder text 'new hero name'. Below the input field is an 'Add' button. Below the 'Add' button is a list of characters. The first character in the list is 'Tanos'. There are four empty rows below 'Tanos' for adding more characters.

Click on character name will open new window for editing characters history, relation and name.



CODE EXPLANATION

Architecture:

All code in program is separated in four packages and resources files. Below we will see all packages in detail.

FileSystem:

All code related to fileSystem of Operating system located in FileSystem package. This package contains classes for creating xml files from user data and user data from xml file. Also these classes are responsible for managing directories.

DataBase:

This package contains DataBase Driver and Models for database. Driver class contains static String variables which are responsible for working with database and also contains methods to get connection to database and retrieve information from db.

Controllers:

In this package located all controllers for User interface and most of logic of application.

Helpers:

Helpers package contains Helpers. Helpers is classed for specific algorithms and functions for this project.

ASSUMPTION

I tried to make this program more user friendly and comfortable, but I have many features which will be added in future versions:

TIMELINE. In future versions the author will be able to make a timeline with characters “Fate Lines”. It will help author do not get mess up with dozens of characters.

CHARACTER HIGHLIGHTING AND SUGGESTION. While editing author will be able to choose which place this action happened and can easily get suggestions on his work. Also program will be able to check a grammar of author.

REFERENCE

The text editor for JavaFx <https://github.com/FXMisc/RichTextFX>

JavaFx <https://openjfx.io/>