Explanatory note

**Topic of the project**

E-library (Library Management System)

**Annotation**

The program consists of two projects – Controller (which is responsible for databases) and View (all the other functions).

It is created to make the work of the library more productive, effective and easier in use for both readers and librarians. The user can create personal account with additional functions such as the base of books, library clients (and opportunities to add and delete them) for library workers and the list of taken books with the return date for readers, some other functions also presented.

**Central repository address**

<https://github.com/kefeer/TeamProject>

**Members of the team and their roles**

Alena Kulikova 156(1) – general logic, Db

Alina Fokina 153(2) – UI, secondary logic

**List of classes and forms with short description**

Controller project – functionality of databases

Models – a folder with classes of the subject area “Library Management System”

Book, BookReader, Librarian, Reader – classes of the subject area “Library Management System”

Context –a class for interaction with the Dbs, reading the files Books.csv, Readers.csv, which are existing Dbs

Initializer – check if the Db exists and creates it if doesn’t, if there is such a Db it does nothing

View – all the other functional points

**Program Interface**

Greeting form with some general information and a button “proceed” which hide this form and shows the main page



Here you can search books which are in the library by name, author or genre. “Sign up” to create account and “Sign in” to log in personal account



Form of registration



Signing in form. If you are a librarian mark “Sign in as librarian”, otherwise the system will identify you as a reader



Librarian’s page. Here he/she can see the base of the readers (search them by name/surname) and the list of books (search is organized as on the main page). Detailed information about each item is also available. New books can be added as well as the books which are not in the library any more can be deleted.

The librarian can delete the account (e.g. he/she does not work there any more). “Log out” returns the user to the main page.



Information about a book with the list of owners to find out who did not return the book in time. The page is available when the button “Show book’s info” is pressed in the librarian’s account.



Form to add the book and it’s information to the database



Reader’s page. Here he/she can see the books “on hands” and the number of days before left to keep the book. “Soon to be returned” is a list of the books which must be returned in 2 or less days. “Outdated books” is a list of the books with passed deadlines.