Data Name

17.10.2016 Panaite Dorinel

# Problem statement:

Write an application for a book library. The application will store:

* Book: <bookId>, <title>, <description>, <author>.
* Client: <clientId>, <name>.
* Rental: <rentalID>, <bookId>, <clientId>, <rented date>, <due date>, <returned date>.

# Library - Feature list

|  |
| --- |
| F1. **Add** a book with an id, title, description and author |
| F2. **Delete** a book by id |
| F3. **Update** book title, description or author |
| F4. **List** all books |
| F5. **Add** a client with an id and name |
| F6. **Delete** a client by id |
| F7. **Update** client name |
| F8. **List** all clients |
| F9. **Rent** a book with an id, to a client with id between certain dates |
| F10. **Return** a book with a certain rental id |
| F11. **List** all rentals (returned or not returned) |

# Iteration plan

|  |  |
| --- | --- |
| **Iteration** | **Planned features** |
| I1 | F1 to F11. Manage the list of clients and available books. Rent or return a book. |

# Iteration 1

# Running scenario

|  |  |  |  |
| --- | --- | --- | --- |
|  | User | Program | Description |
| a |  |  | Program initialises |
| b | 1 1 1 id title description author |  | Adds a book with id, title, description and author |
| c |  |  |  |
| d |  |  |  |
| e |  |  |  |
| f |  |  |  |
| g |  |  |  |
| h |  |  |  |
| i |  |  |  |
| J |  |  |  |
| K |  |  |  |
| L |  |  |  |
| M |  |  |  |

## Work items/tasks

|  |  |
| --- | --- |
| T1 | Book, Client and Rental classes with getters and setters |
| T2 | Book, Client and Rental controller and repository classes with add/remove/update/list functions |
| T3 | UI module to get the inputs from the user and send them to the controller |
| T4 | Main module to run the app. |