



HACETTEPE UNIVERSITY

COMPUTER SCIENCE AND ENGINEERING DEPARTMENT

BBM487 SOFTWARE ENGINEERING LAB
Group 14

LBLS Desktop
Architecture Notebook

20926046
21327618
21228731

RIDVAN ALTUNEL
AYŞE AKCAN
MAHMUT TEKİNYER

Project Manager & Developer
Architect & Tester
Analyst & Technical Writer

Library Book Loan System	
Test Cases	Date: 04/04/2017

TC#1.1 - Login success:

Description	Checks successful log in
Pre-conditions	Database connection must be established via internet
Post-conditions	<ul style="list-style-type: none"> User must be log in to system correctly User's name-surname and school number should be displayed at left-top of screen correctly
Data required	Valid username and password

TC#1.2 - Login invalid input:

Description	Checks trying to log in with invalid data
Pre-conditions	Database connection must be established via internet
Post-conditions	Error message should be displayed to the user
Data required	An invalid username and password

TC#1.3 - Login empty input:

Description	Checks trying to log in with empty data
Pre-conditions	<ul style="list-style-type: none"> Database connection must be established via internet
Post-conditions	<ul style="list-style-type: none"> No action should be performed
Data required	No data required

TC#2.1 - Create account success:

Description	Checks creating account successfully
Pre-conditions	<ul style="list-style-type: none"> Database connection must be established via internet
Post-conditions	<ul style="list-style-type: none"> New user must be created correctly on database Success message should be displayed to the user
Data required	A school number(customer) or personal number(librarian) that defined in university database An appropriate dataset that matches valid input formats

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TC#2.2 - Create account invalid inputs:

Description	Checks trying to create account with invalid data
Pre-conditions	<ul style="list-style-type: none"> Database connection must be established via internet
Post-conditions	<ul style="list-style-type: none"> Error message should be displayed to the user
Data required	Wrong formatted inputs for related fields

TC#2.3 - Create account empty inputs:

Description	Checks trying to create account with empty inputs
Pre-conditions	<ul style="list-style-type: none"> Database connection must be established via internet
Post-conditions	<ul style="list-style-type: none"> Warning message should be displayed to the user about not-null fields
Data required	No data required

TC#2.4 - Create account with username that already exists:

Description	Checks trying to create account with a username that already taken
Pre-conditions	<ul style="list-style-type: none"> Database connection must be established via internet
Post-conditions	<ul style="list-style-type: none"> User should be warned about username conflict
Data required	An appropriate dataset with a username that already taken

TC#2.5 - Create account with school number that doesn't exists:

Description	Checks trying to create account with a school number that is not defined on university database
Pre-conditions	<ul style="list-style-type: none"> Database connection must be established via internet
Post-conditions	<ul style="list-style-type: none"> User should be warned about not defined schoolnumber
Data required	An appropriate dataset except a valid schoolnumber

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TC#2.6 - Create account with school number that already assigned a user:

Description	Checks trying to create account with a school number that already used to creating a user account
Pre-conditions	<ul style="list-style-type: none"> Database connection must be established via internet
Post-conditions	<ul style="list-style-type: none"> User should be warned about school number conflict
Data required	An appropriate dataset and a school number that defined on university database and has an account on the LBLS system

TC#3.1 – Manipulate account success:

Description	Checks manipulating account settings successfully
Pre-conditions	<ul style="list-style-type: none"> User should be logged in to the system successfully User settings button should be clicked on main menu
Post-conditions	<ul style="list-style-type: none"> User's changes should be updated on database correctly Success message should be displayed to the user
Data required	An appropriate dataset that matches with related fields' formats

TC#3.2 – Manipulate account invalid inputs:

Description	Checks trying to manipulate an account with invalid inputs
Pre-conditions	<ul style="list-style-type: none"> User should be logged in to the system successfully User settings button should be clicked on main menu
Post-conditions	<ul style="list-style-type: none"> A warning message should be displayed to the user about wrong formatted inputs
Data required	Wrong formatted inputs for related fields

TC#3.3 – Manipulate account profile picture:

Description	Checks trying to change an account's profile picture
Pre-conditions	<ul style="list-style-type: none"> User should be logged in to the system successfully User settings button should be clicked on main menu
Post-conditions	<ul style="list-style-type: none"> User should see his/her profile picture in the circle mask at the left-top of screen
Data required	A profile picture to upload

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TC#3.4 – Manipulate account no change:

Description	Checks trying to manipulate an account with no change
Pre-conditions	<ul style="list-style-type: none"> User should be logged in to the system successfully User settings button should be clicked on main menu
Post-conditions	<ul style="list-style-type: none"> No action will be performed
Data required	No data required

TC#4.1 – Borrow book success:

Description	Checks borrowing a book from library successfully
Pre-conditions	<ul style="list-style-type: none"> User should be logged in to the system successfully Loan book button should be clicked on main menu Only available books must have been listed (software's responsibility) User must have limit to loan book (software's responsibility) A book should be selected from books list to loan Borrow and giveback dates must be chosen correctly
Post-conditions	<ul style="list-style-type: none"> Borrowed book's available status must be updated to not-available on database User's borrowed books list must be updated on database User's book limit must be decreased Success message should be displayed to the user
Data required	An appropriate dataset for the related input fields

TC#4.2 – Borrow book invaild dates:

Description	Checks try to borrow a book from library with inconsistent date selections
Pre-conditions	<ul style="list-style-type: none"> User should be logged in to the system successfully Loan book button should be clicked on main menu Only available books must have been listed (software's responsibility) User must have limit to loan book (software's responsibility) A book should be selected from books list to loan Borrow and giveback dates must be chosen incorrect
Post-conditions	<ul style="list-style-type: none"> A warning message should be displayed to the user about date inconsistency
Data required	An appropriate dataset except a consistent book-giveback dates

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TC#5.1 – Return book success:

Description	Checks giving back a book to library successfully
Pre-conditions	<ul style="list-style-type: none"> • User should be logged in to the system successfully • Give back book button should be clicked on main menu • A book should be selected from books list to give back
Post-conditions	<ul style="list-style-type: none"> • Given back book's status must be updated to available on database • User's borrowed book's list must be updated on database • User's book limit must be increased • Success message should be displayed to the user
Data required	No data required

TC#6.1 – Reservation book success:

Description	Checks making a reservation for a book successfully
Pre-conditions	<ul style="list-style-type: none"> • User should be logged in to the system successfully • Reservation book button should be clicked on main menu • Not-available books must be listed on screen to reserve (software's responsibility) • A book should be selected from books list to reserve
Post-conditions	<ul style="list-style-type: none"> • User must be added on related book's reserve list • Success message should be displayed to the user
Data required	No data required

TC#7.1 – View book:

Description	Checks viewing a book details successfully
Pre-conditions	<ul style="list-style-type: none"> • User should be logged in to the system successfully • A book has to been selected by the user to view details from any listview in program
Post-conditions	<ul style="list-style-type: none"> • Book's information should be displayed to user correctly
Data required	No data required

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TC#8.1 – View my books:

Description	Checks viewing the user book list successfully
Pre-conditions	<ul style="list-style-type: none"> User should be logged in to the system successfully My books button should be clicked on main menu
Post-conditions	<ul style="list-style-type: none"> User's borrowed books should be listed on screen
Data required	No data required

TC#9.1 – Search books:

Description	Checks searching a book on library database successfully
Pre-conditions	<ul style="list-style-type: none"> User should be logged in to the system successfully
Post-conditions	<ul style="list-style-type: none"> The books that matches user input must be listed on screen
Data required	A book name to search

TC#10.1 – Manipulate user as librarian (edit) success:

Description	Checks manipulating an account information by a librarian successfully
Pre-conditions	<ul style="list-style-type: none"> Librarian should be logged in to the system successfully Manipulate user button should be clicked on main menu User to be manipulated should be selected from list
Post-conditions	<ul style="list-style-type: none"> Related updates about user must be saved to the database Success message must be displayed to the librarian
Data required	An appropriate dataset for the related input fields

TC#10.2 – Manipulate user as librarian (edit) invalid inputs:

Description	Checks trying to manipulate an account information by a librarian with invalid data
Pre-conditions	<ul style="list-style-type: none"> Librarian should be logged in to the system successfully Manipulate user button should be clicked on main menu User to be manipulated should be selected from list
Post-conditions	<ul style="list-style-type: none"> Warning message about related fields should be displayed to the librarian
Data required	Some wrong formatted data for the related input fields

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TC#10.3 – Manipulate user as librarian (delete) success:

Description	Checks deleting a user from library database successfully
Pre-conditions	<ul style="list-style-type: none"> • Librarian should be logged in to the system successfully • Manipulate user button should be clicked on main menu • User to be deleted should be selected from list
Post-conditions	<ul style="list-style-type: none"> • User and his/her records must be deleted from database • Success message must be displayed to the librarian
Data required	Some wrong formatted datas for the related input fields

TC#11.1 – Manipulate book as librarian (edit) success:

Description	Checks manipulating a book's informations by librarian successfully
Pre-conditions	<ul style="list-style-type: none"> • Librarian should be logged in to the system successfully • Manipulate book button should be clicked on main menu • Book to be manipulated should be selected from list
Post-conditions	<ul style="list-style-type: none"> • Related updates about book must be saved to the database • Success message must be displayed to the librarian
Data required	An appropriate dataset for the related input fields

TC#11.2 – Manipulate book as librarian (edit) invalid inputs:

Description	Checks trying to manipulate a book's information by librarian with invalid data
Pre-conditions	<ul style="list-style-type: none"> • Librarian should be logged in to the system successfully • Manipulate book button should be clicked on main menu • Book to be manipulated should be selected from list
Post-conditions	<ul style="list-style-type: none"> • Warning message about related fields should be displayed to the librarian
Data required	Some wrong formatted datas for the related input fields

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TC#11.3 – Manipulate book as librarian (delete) success:

Description	Checks deleting a book from library database successfully
Pre-conditions	<ul style="list-style-type: none"> • Librarian should be logged in to the system successfully • Manipulate book button should be clicked on main menu • Book to be deleted should be selected from list
Post-conditions	<ul style="list-style-type: none"> • Book and it's data should be removed from database • Success message must be displayed to the librarian
Data required	No data required

TC#12.1– Logout success:

Description	Checks log out from LBLS Desktop Application successfully
Pre-conditions	<ul style="list-style-type: none"> • Librarian should be logged in to the system successfully
Post-conditions	<ul style="list-style-type: none"> • All changes must be saved on database • Login screen must be loaded successfully
Data required	No data required