

**Lab#2 – Requirements Analysis – Use Cases**  
**Ontario Tech University**

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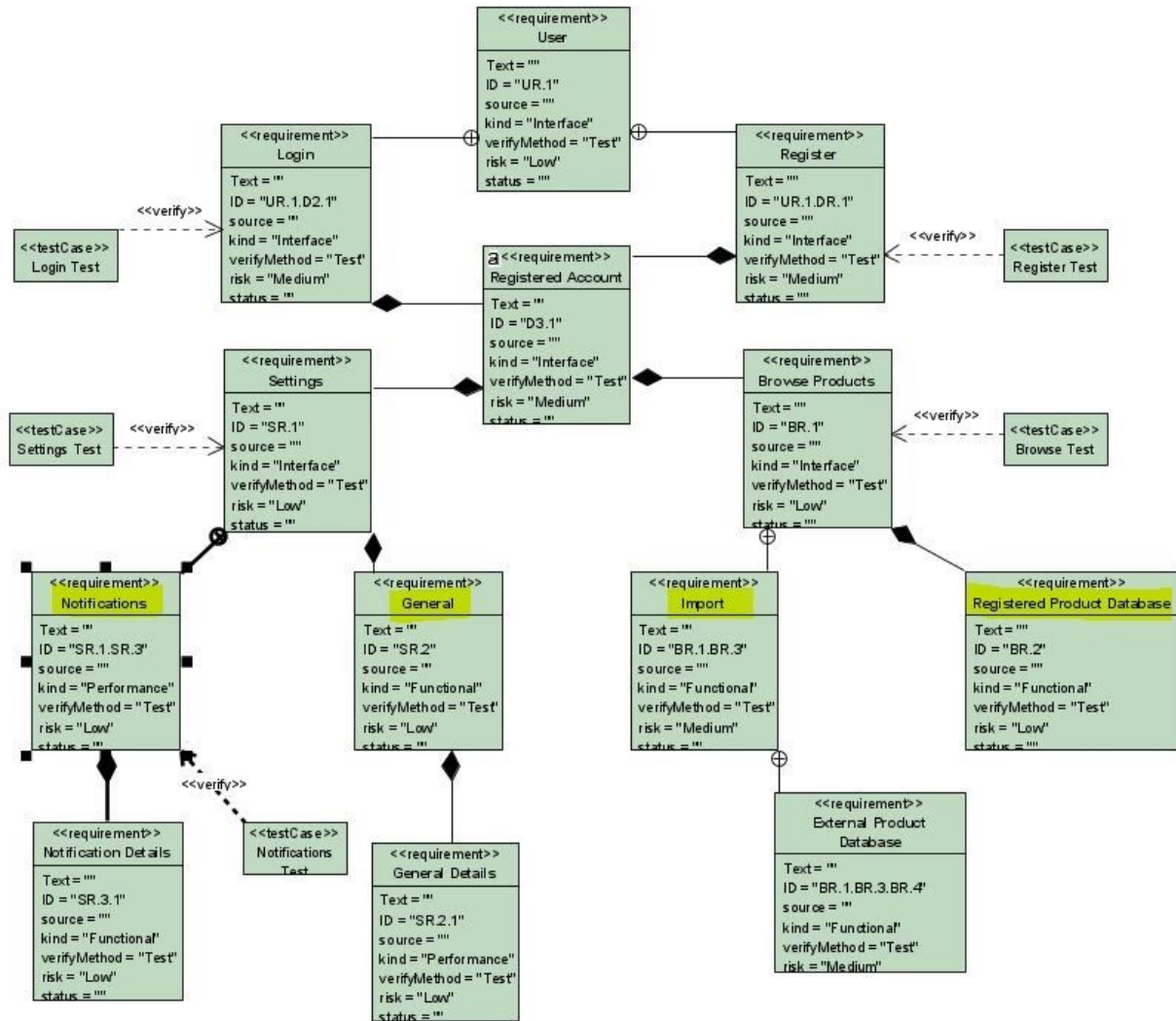
SOFE 2720 Principles of Software and Requirements Engineering  
Instructor: Dr. Anwar Abdalbari  
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## B. Deliverables

### B.1 Refining the Requirements

- Requirements can have a **hierarchical structure** to them and definitely should have test cases associated with them



## B.2 Project Use Cases

### Login Test Case

Steps	Procedures	Expected Results
1. Enter Username and Password	User enters Username and Password into text box	Text entered is displayed back to them
2. Validate	User enters submit	User is verified and directed to appropriate registered account

### Register Test Case

Steps	Procedures	Expected Results
1. Enter Information	User enters personal data into specific prompts	Displays entered information back to User
2. Validation	User Submits Data	Successful validation of entered email, username and password
3. Direct to Account	User selects prompt that directs them to new account home page	User is directed to new home page

### Settings Test Case

Steps	Procedures	Expected Results
1. Open settings	Select settings from home screen	Prompt user to be directed to General, Notifications or Back
2. Return Back	Select or "back" to return to home screen	User is directed to home screen
3. Advance	User selects to General or Notifications	User is directed to General or Notifications

### Browse Test Case

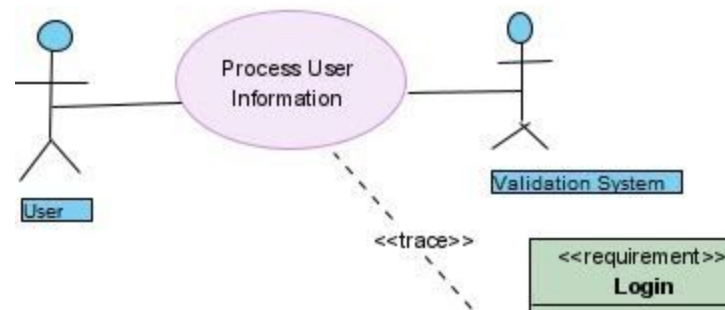
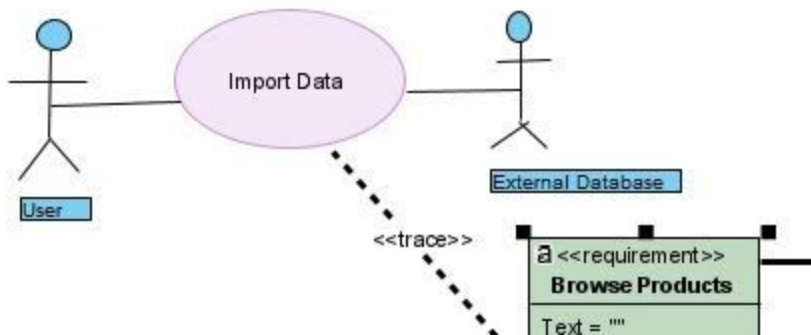
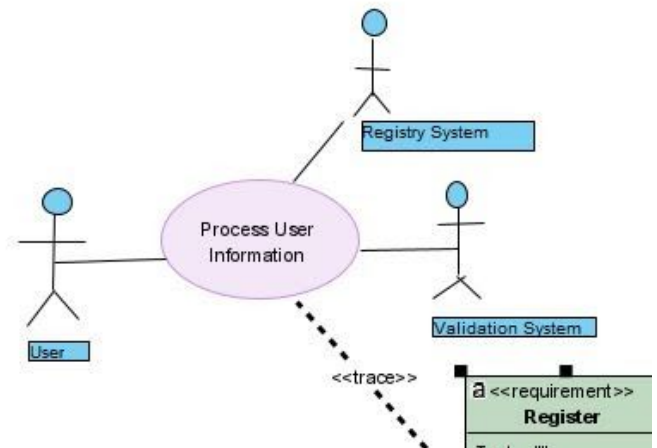
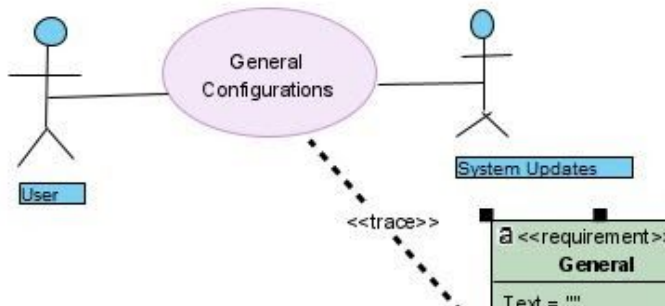
Steps	Procedures	Expected Results
1. Browse	User looks through product data	Product data is loaded from Internal/ External database
2. Product Info	User selects on product	Specific product info is displayed to user

### Notification Test Case

Steps	Procedures	Expected Results
1. Update	User updates notifications settings	New information is displayed to user before submission
2. Submit	User submits new notification settings	Notifications settings are updated

## B.2 Project Use Cases

### B.2.1 Building Use Cases using scenarios.



### B.2.2 Use Case Descriptions

Use Case Name :	Login		
Brief Description :	Validates User Input		
Actors :	User, Validation System, Database		
Preconditions :	User is active, Text input enabled		
Basic Flow :	1. Enters Username, 2. Enters Password, 3. Submits		
Alternate Flows :	User switches to Register page		
Exception Flows :	User enters invalid information, resets requirement		
Post Conditions :	Username and Password are both valid		

Use Case Name :	Register		
Brief Description :	Validates User Input, Processes new account		
Actors :	User, Validation System, Database		
Preconditions :	User is active, Text input enabled		
Basic Flow :	1. Enters Username, 2. Enters Password, 3. Enters Email 4. Submits		
Alternate Flows :	User switches to Login page		
Exception Flows :	User enters invalid information, resets requirement		
Post Conditions :	Username, Password and Email are all valid		

Use Case Name :	Notifications		
Brief Description :	Allows change to notification system		
Actors :	User, Updates and Notification System		
Preconditions :	User has Registered Account, Notification option was selected		
Basic Flow :	User updates settings the submits		
Alternate Flows :	User switches to General Configurations		
Exception Flows :	Submitted settings are not filled out, Requirement is reset		
Post Conditions :	All configurations are filled out before submissio		

Use Case Name :	Browse Products		
Brief Description :	User navigates through Registered Products		
Actors :	User, Database		
Preconditions :	External Database is operational		
Basic Flow :	User browses through products, selects preferred one		
Alternate Flows :	User goes back to homepage		
Exception Flows :	<u>Database doesnt provide desired products</u>		
Post Conditions :	Data available for selected product		