

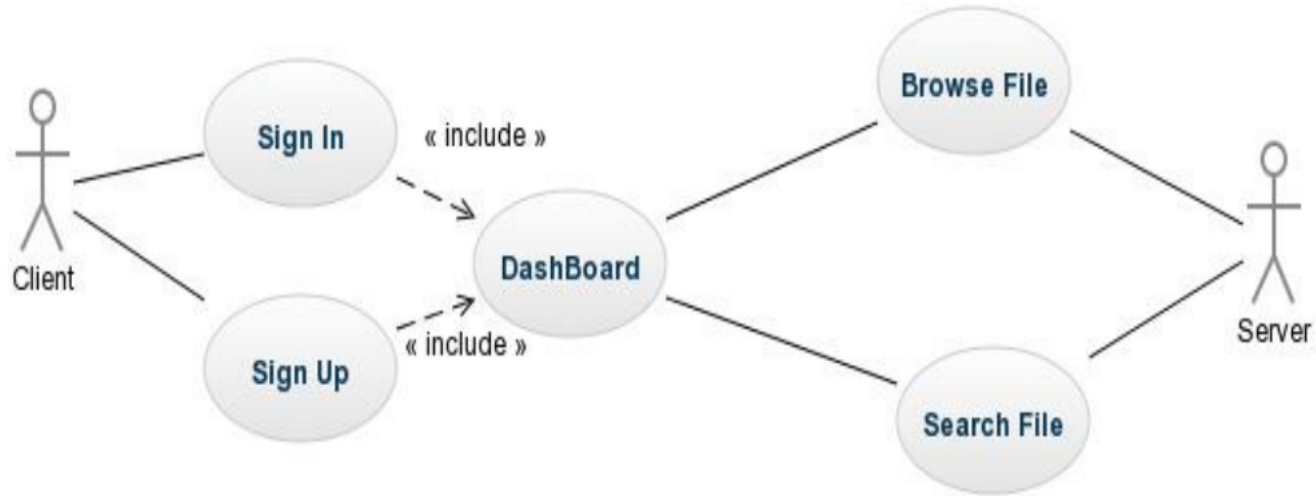
Media Sharing Software

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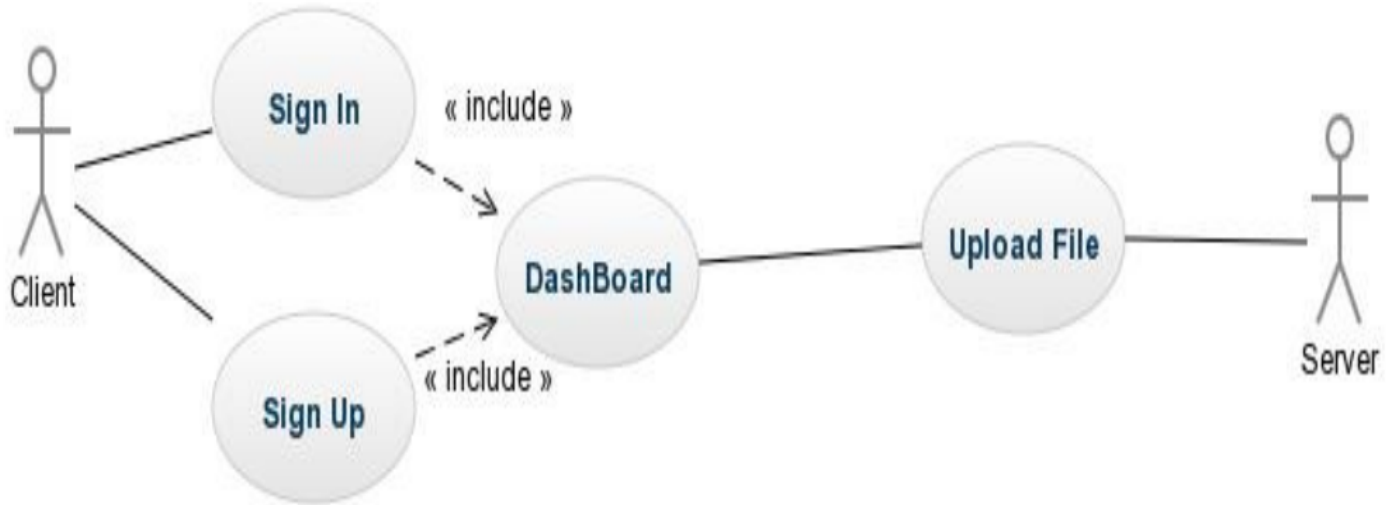
Use Cases



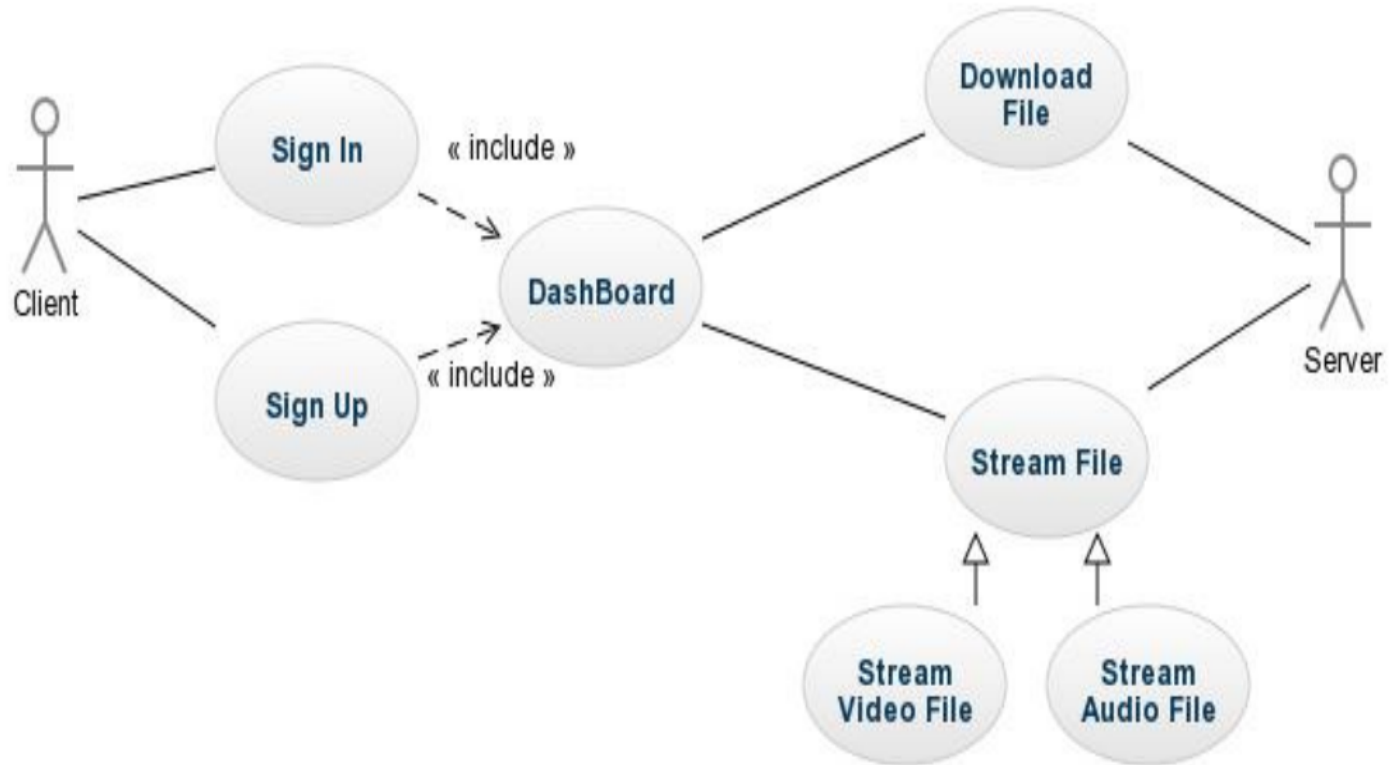
Use Cases



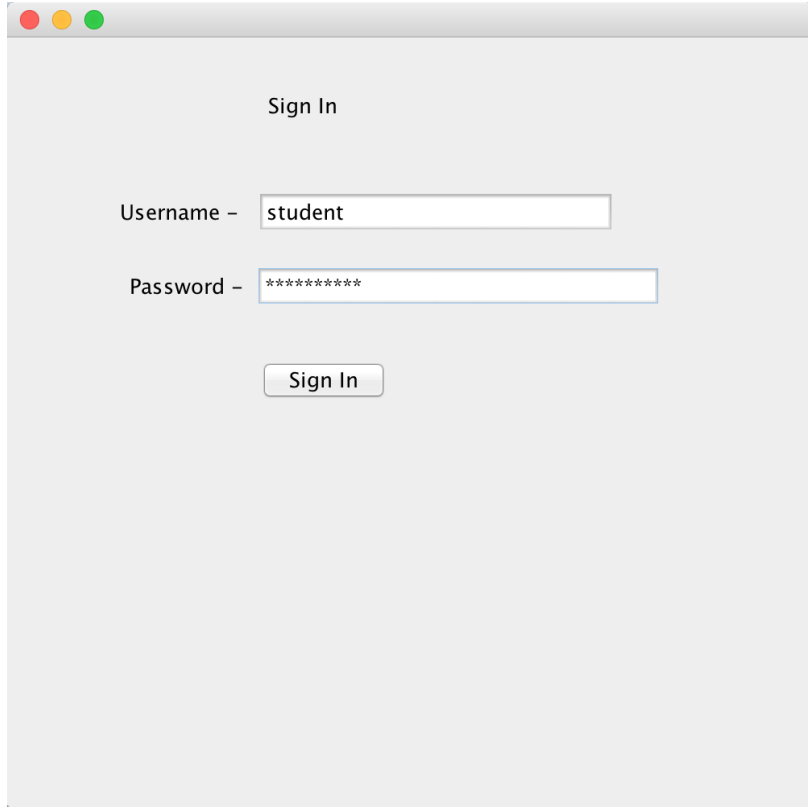
Use Cases



Use Cases



GUI

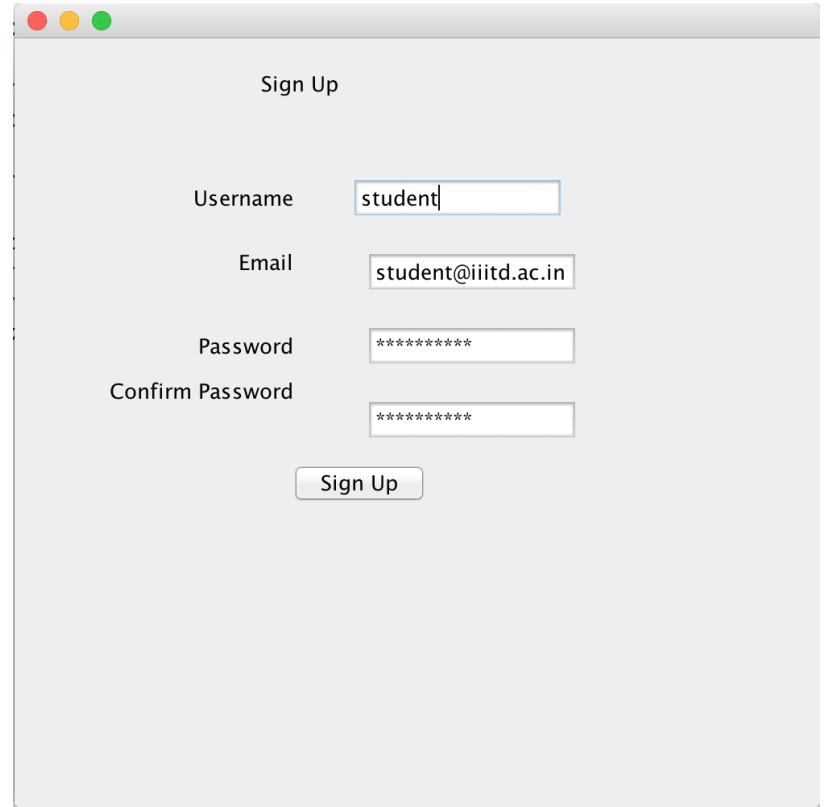


A window titled "Sign In" with a light gray background and a standard macOS-style title bar with red, yellow, and green buttons. It contains two text input fields: "Username" with the text "student" and "Password" with masked text "*****". A "Sign In" button is located below the password field.

Sign In

Username –

Password –



A window titled "Sign Up" with a light gray background and a standard macOS-style title bar with red, yellow, and green buttons. It contains four text input fields: "Username" with "student", "Email" with "student@iiitd.ac.in", "Password" with masked text "*****", and "Confirm Password" with masked text "*****". A "Sign Up" button is located below the confirm password field.

Sign Up

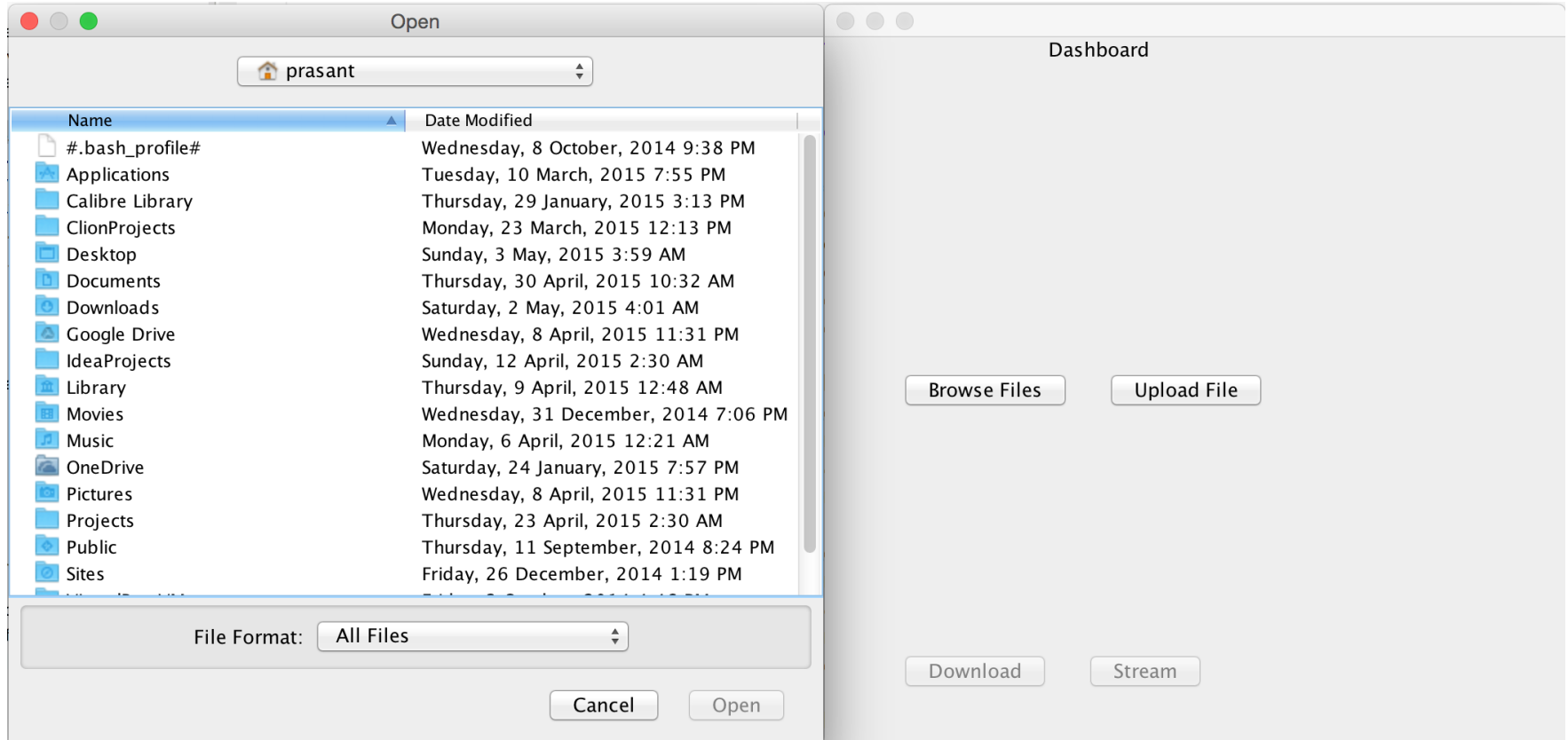
Username

Email

Password

Confirm Password

GUI



Functionality

- An always available server listening to requests
- Options for clients:
 - Browse
 - Upload
 - Download
 - Play downloaded file
- Bytes transferred over the LAN, which is faster

Functionality

- Database of users, for signing up and signing in
- Multithreaded: A new thread for every client with an exclusive socket connection

Challenges

- Designing the architecture
- Estimating the complexity
- Handling character encoding
- Blocking calls for receiving data
- Learning the socket programming API
- Converting bytestreams to meaningful and logically separated data

Demo

Sonar

Lines of code

1,404 ↗

1,962 lines ↗

533 statements ↗

27 files

Classes

27

5 packages

79 methods ↗

17 accessors

Comments

8.3%

127 lines ↗

17.9% docu. API ↗

55 undocu. API ↗

Duplications

5.4% ↘

106 lines

4 blocks

4 files

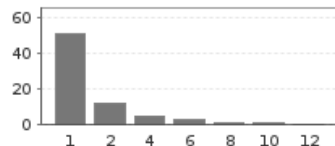
Complexity

1.8 /method

5.1 /class ↗

5.1 /file ↗

Total: 139 ↗



☒ Methods ☐ Files

Violations

286 ↗

Rules compliance

61.7% ↗

⬆ [Blocker](#)

0

⬆ [Critical](#)

0

⬆ [Major](#)

130 ↗

⬆ [Minor](#)

148 ↗

✓ [Info](#)

8

Unit tests coverage

-

Unit test success

0 tests

Events












All ▼







03 May 2015

Version

1.0

Sonar

Severity			Rule	
	<u>Blocker</u>	0		<u>Unused local variable</u>
	<u>Critical</u>	0		<u>Hidden Field</u>
	<u>Major</u>	130 <div><div></div></div>		<u>Magic Number</u>
	<u>Minor</u>	148 <div><div></div></div>		<u>Singular Field</u>
	<u>Info</u>	8		<u>Modifier Order</u>
				<u>Unused Imports</u>

	 <u>client.gui</u>	133
	 <u>server</u>	3
	 <u>client</u>	3