# MAIN.main( )

| Variable | Datatype | Desciption |
| --- | --- | --- |
| ctr | int | counter for error handling |
| u[ ] | User | array of all users |
| userno | int | stores user number of user |
| a | char | stores the value entered by user |
| i | int | counter for delay loop |

# social\_menu.main( )

| Variable | Datatype | Desciption |
| --- | --- | --- |
| ctr | int | counter for error handling |
| u[ ] | User | array of all users |
| userno | int | stores user number of user |
| a | char | stores the value entered by user |
| i | int | counter for number of messages |
| m[ ] | Message | array of all messages created by user |
| j | int | counter for loop |
| flag | boolean | flag to check if messages to be displayed |
| p | boolean | flag to check which user is friend |
| in | char | stores value entered by user |
| k | int | counter for delay loop |

# email\_main.menu( )

| Variable | Datatype | Desciption |
| --- | --- | --- |
| i | int | counter for number of messages |
| ctr | int | counter for error handling |
| e[ ] | Email | array of all emails sent by user |
| u[ ] | User | array of all users |
| userno | int | stores user number of user |
| a | char | stores the value entered by user |
| j | int | counter for loop |
| k | int | counter for delay loop |

# friend\_menu.menu( )

| Variable | Datatype | Desciption |
| --- | --- | --- |
| ctr | int | counter for error handling |
| u[ ] | User | array of all users |
| userno | int | stores user number of user |
| a | char | stores the value entered by user |
| i | int | counter for delay loop |

# Account.viewAccount( )

| Variable | Datatype | Desciption |
| --- | --- | --- |
| ctr | int | counter for error handling |
| u[ ] | User | array of all users |
| userno | int | stores user number of user |
| a | char | stores the value entered by user |
| i | int | counter for delay loop |

# Inbox.inbox( )

| Variable | Datatype | Desciption |
| --- | --- | --- |
| u[ ] | User | array of all users |
| userno | int | stores user number of user |
| a | char | sores the value entered by user |
| in | int | stores integer value of ‘a’ |
| j | int | counter for loop |

# friend.newFriend( )

| Variable | Datatype | Desciption |
| --- | --- | --- |
| u[ ] | User | array of all users |
| userno | int | stores user number of user |
| i | int | counter for loop |
| n | String | stores name entered by user |
| c | char | stores value entered by user |
| b | char | stores value entered by user |
| flag | boolean | flag to check if invalid value is entered |
| flag1 | boolean | flag to check if invalid value is entered |

# friend.viewFriend( )

| Variable | Datatype | Desciption |
| --- | --- | --- |
| u[ ] | User | array of all users |
| userno | int | stores user number of user |
| i | int | counter for loop |
| f | int | checks if user has friends |
| n | String | stores name entered by user |
| c | char | stores value entered by user |
| b | char | stores value entered by user |
| flag | boolean | flag to check if invalid value is entered |
| flag1 | boolean | flag to check if invalid value is entered |

# Start.main( )

| Variable | Datatype | Desciption |
| --- | --- | --- |
| u[ ] | User | array of all users |
| l | int | stores value for number of users created |
| ctr | int | control for error handling |
| a | char | stores value entered by user |
| i | int | counter for loop |

# Login.login( )

| Variable | Datatype | Desciption |
| --- | --- | --- |
| u[ ] | User | array of all users |
| a | User | dummy user to check values |
| p | boolean | flag to check if login is successful |
| i | int | counter for loop |

# Email.newMail( )

| Variable | Datatype | Desciption |
| --- | --- | --- |
| body | String | stores the email message entered by user |
| subject | String | stores subject of email entered by user |
| sender | String | stores email-id of sender |
| to | String | sores email-if of receiver |
| flag | int | counter for do-while loop |
| i | int | counter for loop |
| p | boolean | flag to check if email-id is valid |
| c | char | stores individual character of email-id entered |
| j | int | counter for loop |
| c1 | char | stores individual character of email-id entered |

# Message.newMessage( )

| Variable | Datatype | Desciption |
| --- | --- | --- |
| message | String | stores message entered by user |
| username | String | stores username of user |
| name | String | stores name of user |
| i | int | counter for loop |

# User ( )

| Variable | Datatype | Desciption |
| --- | --- | --- |
| user[ ] | String | stores usernames of all users |
| pass[ ] | String | stores password of all users |
| eid[ ] | String | Stores email-id of all users |
| ctruser | int | value of number of users created |
| userno | int | value of user number |
| username | String | stores username of user |
| password | String | stores password of user |
| email | String | stores email-id of user |
| name | String | stores name of user |
| emailno | int | stores number of emails received by user |
| friendno | int | stores number of friends of user |
| e[ ] | Email | array of all emails received |
| friend[ ] | User | array of all friends of user |

# User.newUser( )

| Variable | Datatype | Desciption |
| --- | --- | --- |
| a | int | counter for do-while loop |
| c | char | stores individual character of email-id entered |
| i | int | counter for loop |
| p | boolean | flag to check if email-id is valid |
| j | int | counter for loop |
| c1 | char | stores individual character of email-id entered |

# User.Useru( )

| Variable | Datatype | Desciption |
| --- | --- | --- |
| i | int | counter for loop |

# User.newUsere( )

| Variable | Datatype | Desciption |
| --- | --- | --- |
| i | int | counter for loop |

# User.setUser( )

| Variable | Datatype | Desciption |
| --- | --- | --- |
| a | int | counter for do-while loop |
| p | boolean | flag to check if email-id entered is valid |
| b | char | stores value entered by user |
| i | int | counter for loop |
| c | char | stores individual character of email-id entered |
| j | int | counter for loop |
| c1 | char | stores individual character of email-id entered |

# User.isFriend( )

| Variable | Datatype | Desciption |
| --- | --- | --- |
| i | int | counter for loop |