Operation Contracts

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SSD: Login

Operation:	1: Login Attempt
Cross References:	Use Cases: Login
Preconditions:	- There was a Login Attempt underway
Postconditions:	- A Login Attempt instance was associated with the current Login
	- The Client Software received a Login Attempt request

Operation:	2: Login Info
Cross References:	Use Cases: Login
Preconditions:	- There was a Login Attempt underway
	- The Client Software received a Login Attempt request
Postconditions:	- The Client Software received the User's Login Information

Operation:	2.2 Login Request
Cross References:	Use Cases: Login
Preconditions:	- There was a Login Attempt underway
	- The Client Software received Login Information
Postconditions:	- The Server received the Login Request and Login Information

SSD: Registration

Operation:	3: Registration Attempt
Cross References:	Use Cases: Registration
Preconditions:	- There was a current Registration Attempt underway
Postconditions:	- A new Registration Attempt was created and associated with the current Registration
	- A Registration Attempt request was received by the Client Software

Operation:	3.1: Registration Form
Cross References:	Use Cases: Login
Preconditions:	- There was a Login Attempt underway
	- A Registration Attempt request was received by the Client Software
Postconditions:	- The Client Software displayed Registration Form

Operation:	4: Registration Info
Cross References:	Use Cases: Login
Preconditions:	- There was a Login Attempt underway
	- The Client Software received a Registration Attempt
Postconditions:	- Registration Information was received by the Client Software

Operation: 4.1: Invalid Info

Cross References: Use Cases: Registration

Preconditions: - There was a current Registration Underway

         - The Client Software received the Registration Attempt state

Postconditions: - The current Registration Attempt instance was deleted

         - A new Registration Attempt instance was created and was

         associated with Registration

         - Registration Page was reloaded

<div align="center">Verify Account</div>

Operation: 4.2: Verify Email

Cross References: Use Cases: Registration, Re-Verify Account

Preconditions: - There was a current Registration Underway

         - Server received Registration Attempt request

Postconditions: - SMTP received a request to Verify Email

Operation: 4.3: Listen {5 min}

Cross References: Use Cases: Registration, Re-Verify Account

Preconditions: - There was a current Registration Underway

         - SMTP requested email verification

Postconditions: - POP3 Listened for communication for 5 minutes

Operation: 5: Valid Reply

Cross References: Use Cases: Registration, Re-Verify Account

Preconditions: - There was a current Registration Underway

                             - POP3 received communication

Postconditions: - Server received Valid Reply from POP3

Operation: 5.1: Registration Request

Cross References: Use Cases: Registration, Re-Verify Account

Preconditions: - There was a current Registration Underway

                             - Client Software received Registration Attempt request

Postconditions: - Server had received Registration Attempt request

Operation: 5.2: Registration Success

Cross References: Use Cases: Registration, Re-Verify Account

Preconditions: - There was a current Registration Underway

                             - Server received Valid Reply from POP3

Postconditions: - Registration Attempt was set to Success

                             - Client Software received Registration Attempt state

Operation: 5.3: Report Success

Cross References: Use Cases: Registration, Re-Verify Account

Preconditions: - There was a current Registration Underway

                             - The Client Software received Registration Attempt state

Postconditions: - Registration Successful notification was displayed

Operation:	5.3: Registration Failure
Cross References:	Use Cases: Registration, Re-Verify Account
Preconditions:	- There was a current Registration Underway
	- Server received No Valid Reply from POP3
Postconditions:	- Registration Attempt state was set to failure
	- Client Software received Registration Attempt state

Operation:	5.3.1: Report Failure
Cross References:	Use Cases: Registration, Re-Verify Account
Preconditions:	- There was a current Registration Underway
	- Client Software received Registration Attempt state
Postconditions:	- Registration Failed notification was displayed
	- Registration Page was reloaded

Operation:	6: No Valid Reply
Cross References:	Use Cases: Registration, Re-Verify Account
Preconditions:	- There was a current Registration Underway
	- POP3 did not receive a reply
Postconditions:	- Server received No Valid Reply from POP3

Operation:	6.1: Registration Failure
Cross References:	Use Cases: Registration, Re-Verify Account
Preconditions:	- There was a current Registration Underway
	- Server received No Valid Reply from POP3
Postconditions:	- Registration Attempt state was set to failure
	- Client Software received Registration Attempt state

Operation:	6.1.1: Report Failure
Cross References:	Use Cases: Registration, Re-Verify Account
Preconditions:	- There was a current Registration Underway
	- Client Software received Registration Attempt state
Postconditions:	- Registration Failed notification was displayed
	- Registration Page was reloaded

SSD: Browsing Message Board

Operation: 7: Load Board

Cross References: Use Cases: Browsing Message Board

Preconditions: - User browsed the Message Board

Postconditions: - The Load Board instance was associated with the current

Message Board

- Client Software received request to Load Board

Operation: 7.1: Request Board

Cross References: Use Cases: Browsing Message Board

Preconditions: - User browsed the Message Board

- Client Software received request to Load Board

Postconditions: - Server received Request Board request

Operation: 7.2: Message Board

Cross References: Use Cases: Browsing Message Board

Preconditions: - User browsed the Message Board

- Server received Request Board request

Postconditions: - A Message Board state was returned to the Client Software

Operation: 7.3: Drawn Message Board

Cross References: Use Cases: Browsing Message Board

Preconditions: - User browsed the Message Board

         - Client Software received Request Board request

Postconditions: - The Board's Messages were loaded according to the Messages'

         Headers

Operation: 8: Sort/Filter Board

Cross References: Use Cases: Browsing Message Board

Preconditions: - User browsed the Message Board

Postconditions: - The Client Software received request to Sort/Filter Board

Operation: 8.1: Board's Messages' Headers

Cross References: Use Cases: Browsing Message Board

Preconditions: - User browsed the Message Board

         - The Client Software received a request to Sort/Filter the Board

Postconditions: - The Board's Messages were loaded according to the Messages'

         Headers and the sort method

Operation: 9: Load Message

Cross References: Use Cases: Browsing Message Board

Preconditions: - User browsed the Message Board

Postconditions: - Client Software got the request to Load Message

Operation: 9.1: Drawn Message

Cross References: Use Cases: Browsing Message Board

Preconditions: - User browsed the Message Board

                          - Client Software gets request to Load Message

Postconditions: - The Client Software implemented the MessageHeaders to

                          display Post on screen

Operation: 10: Accept Trip

Cross References: Use Cases: Browsing Message Board

Preconditions: - There was a Board Request was underway

Postconditions: - The Client Software got the request to Accept Offer

Operation: 10.1: Sign Up for Trip

Cross References: Use Cases: Browsing Message Board

Preconditions: - User browsed the Message Board

                          - The Client Software got the request to Accept Trip

Postconditions: - The Server received request to Accept Offer

                          - A new Sign Up instance was created and associated with the

                          Message Board

Operation: 10.2: Success

Cross References: Use Cases: Browsing Message Board

Preconditions: - User browsed the Message Board

Postconditions: - Sign Up state was assigned Success

                            - Client Software received Sign Up State

Operation: 10.3: Report Success

Cross References: Use Cases: Browsing Message Board

Preconditions: - User browsed the Message Board

Postconditions: - Client Software displayed Successful Signup notification

Operation: 10.3: Failure

Cross References: Use Cases: Browsing Message Board

Preconditions: - User browsed the Message Board

Postconditions: - Sign Up State was assigned Failure

                            - Client Software received Sign up state

Operation: 10.3.1 Report Failure

Cross References: Use Cases: Browsing Message Board

Preconditions: - User browsed the Message Board

                            - Client Software received Sign up state

Postconditions: - Client Software displayed Signup Failed notification

Operation: 10.3.2: Request Board

Cross References: Use Cases: Browsing Message Board

Preconditions: - User browsed the Message Board

Postconditions: - Client Software requested board instance

Operation: 10.3.3: Message Board

Cross References: Use Cases: Browsing Message Board

Preconditions: - User browsed the Message Board

                                     - Client Software requests board instance

Postconditions: - Board Instance was received by the Client Software

SSD: Posting a Message

Operation:	11: Post a Message
Cross References:	Use Cases: Posting a Message, Posting Offer, Posting Request, Posting Service, Accepting Offer, Accepting Request, Accepting Service
Preconditions:	- There was a Post a Message Request underway
Postconditions:	- The Client Software received a Post a Message request

Operation:	11.1: Trip Form
Cross References:	Use Cases: Posting a Message, Posting Offer, Posting Request, Posting Service, Accepting Offer, Accepting Request, Accepting Service
Preconditions:	- There was a Post a Message Request underway
	- The Client Software received a Post a Message request
Postconditions:	- A Trip Form was displayed on screen

Operation:	12: Trip Info
Cross References:	Use Cases: Posting a Message, Posting Offer, Posting Request, Posting Service, Accepting Offer, Accepting Request, Accepting Service
Preconditions:	- There was a Post a Message Request underway
Postconditions:	- The Client Software received Trip Information

Operation:	12.1: Invalid Info
Cross References:	Use Cases: Posting a Message, Posting Offer, Posting Request, Posting Service, Accepting Offer, Accepting Request, Accepting Service
Preconditions:	- There was a Post a Message Request underway - The Client Software received Trip Information
Postconditions:	- The Post a Message request was deleted - A new instance of Post a Message request was created and associated with Post a Message - Trip Form was reloaded - Invalid Info error was displayed

Operation:	12.2: Add Message
Cross References:	Use Cases: Posting a Message, Posting Offer, Posting Request, Posting Service, Accepting Offer, Accepting Request, Accepting Service
Preconditions:	- There was a Post a Message Request underway - The Client Software received Trip Info
Postconditions:	- The Server received Trip Info

Operation:	12.3: Success
Cross References:	Use Cases: Posting a Message, Posting Offer, Posting Request, Posting Service, Accepting Offer, Accepting Request, Accepting Service
Preconditions:	- There was a Post a Message Request underway - The Server received Trip Info
Postconditions:	- Trip Info was recorded by Server and added to the Message Board

Operation:	12.4: Report Success
Cross References:	Use Cases: Posting a Message, Posting Offer, Posting Request, Posting Service, Accepting Offer, Accepting Request, Accepting Service
Preconditions:	- There was a Post a Message Request underway - The Client Software received Post a Message success state
Postconditions:	- The Client Software reported Success

Operation:	12.4: Failure
Cross References:	Use Cases: Posting a Message, Posting Offer, Posting Request, Posting Service, Accepting Offer, Accepting Request, Accepting Service
Preconditions:	- There was a Post a Message Request underway - The Server received Trip Info
Postconditions:	- The Server failed to add Trip Info to the Message Board

Operation:	12.4.1: Report Failure
Cross References:	Use Cases: Posting a Message, Posting Offer, Posting Request, Posting Service, Accepting Offer, Accepting Request, Accepting Service
Preconditions:	- There was a Post a Message Request underway - The Client Software received Post a Message Failure state
Postconditions:	- The Client Software reported Failure

SDD: Browsing Account

Operation: 13: Check User's Profile

Cross References: Use Cases: Browsing Account

Preconditions: - A User was Browsing their Account

Postconditions: - The Client Software received request to Check Profile

Operation: 13.2 Request User

Cross References: Use Cases: Browsing Account

Preconditions: - A User was Browsing their Account

                             - The Client Software received request to Check Profile

Postconditions: - The Server received request to return User

Operation: 13.2: User

Cross References: Use Cases: Browsing Account

Preconditions: - A User was Browsing their Account

                             - The Server received request to return User

Postconditions: - The Server returned User to the Client Software

Operation: 13.3: Draw Profile

Cross References: Use Cases: Browsing Account

Preconditions: - A User was Browsing their Account

                             - The Server returned User to the Client Software

Postconditions: - The Client Software displayed the User's profile on screen

SSD: Change Settings

Operation: 14: Change Settings

Cross References: Use Cases: Change Settings

Preconditions: - There was a Change Setting request underway

Postconditions: - The Client Software received a request to Change Settings

Operation: 14.1: Settings Form

Cross References: Use Cases: Change Settings

Preconditions: - There was a Change Setting request underway

                        - The Client Software received a request to Change Settings

Postconditions: - The Client Software displayed Setting Form to the screen

Operation: 15: Settings Info

Cross References: Use Cases: Change Settings

Preconditions: - There was a Change Setting request underway

                        - The Client Software displayed Setting Form to the screen

Postconditions: - The Client Software received Settings Info from Setting Form

Operation: 15.1: Invalid Info

Cross References: Use Cases: Change Settings

Preconditions: - There was a Change Setting request underway

Postconditions: - The Change Settings request was deleted

                        - A new Changes Settings request was created and associated

                        with the current Settings

                        - Settings Form was displayed

                        - Failed to change settings error displayed

Operation: 12.4.1: Report Success

Cross References: Use Cases: Change Settings

Preconditions: - There was a Change Setting request underway

Postconditions: - The Client Software reported Success state to User

SSD: Recover Password

Operation:	16: Recover Password
Cross References:	Use Cases: Recover Password
Preconditions:	- There was a Recover Password request underway
Postconditions:	- The Client Software got a request to Recover Password

Operation:	16.1: Verify Email
Cross References:	Use Cases: Recover Password
Preconditions:	- There was a Recover Password request underway
	- The Client Software got a request to Recover Password
Postconditions:	- SMTP sent out Verification Email

Operation:	16.2: Listen
Cross References:	Use Cases: Recover Password
Preconditions:	- There was a Recover Password request underway
	- SMTP sent out Verification Email
Postconditions:	- POP3 listened for a reply

Operation: 17: Valid Reply

Cross References: Use Cases: Recover Password

Preconditions: - There was a Recover Password request underway

                               - POP3 Heard a reply

Postconditions: - POP3 sent Valid Reply state to Client Software

Operation: 17.1: Password Reset Form

Cross References: Use Cases: Recover Password

Preconditions: - There was a Recover Password request underway

Postconditions: - The Client Software displayed the Password Reset Form to

                               screen

Operation: 18: Password info

Cross References: Use Cases: Recover Password

Preconditions: - There was a Recover Password request underway

Postconditions: - The Client Software received Password Reset Information

Operation: 18.1: Invalid Info

Cross References: Use Cases: Recover Password

Preconditions: - There was a Recover Password request underway

- The Client Software received Password Reset Information

Postconditions: - The current Password Reset request was deleted

- A new instance of Password Reset request was created and

associated with the current Password Reset

- User profile was displayed

- Failure to Reset Password was displayed

Operation: 18.2: Change PassHash

Cross References: Use Cases: Recover Password

Preconditions: - There was a Recover Password request underway

Postconditions: - The Server received a new PassHash for the current User

- User PassHash updated

Operation: 18.3: Success

Cross References: Use Cases: Recover Password

Preconditions: - There was a Recover Password request underway

Postconditions: - The Client Software received Password Reset Success state

Operation: 18.4: Report Success

Cross References: Use Cases: Recover Password

Preconditions: - There was a Recover Password request underway

                              - The Client Software received Password Reset Success state

Postconditions: - The Client Software reported Password Reset Success to the

                              User

Operation: 18.4: Failure

Cross References: Use Cases: Recover Password

Preconditions: - There was a Recover Password request underway

Postconditions: - The Client Software received Password Reset Fail state

Operation:

Cross References: Use Cases: Recover Password

Preconditions: - There was a Recover Password request underway

                              - The Client Software received Password Reset Fail state

Postconditions: - The Client Software reported Password Reset Failure to the User

Operation: 19: Invalid Reply

Cross References: Use Cases: Recover Password

Preconditions: - There was a Recover Password request underway

                              - SMTP sent out a email

                              - POP3 Hears nothing

Postconditions: - POP3 reported Invalid Reply to Server

Operation: 19.1: Failure

Cross References: Use Cases: Recover Password

Preconditions: - There was a Recover Password request underway

                                    - POP3 reports Invalid Reply to Server

Postconditions: - The Client Software received the Reset Password fail state

Operation: 19.1.1: Report Failure

Cross References: Use Cases: Recover Password

Preconditions: - There was a Recover Password request underway

                                    - The Client Software received the Reset Password fail state

Postconditions: - The Client Software displayed Reset Password Failure to screen

                                    - The current Reset Password request was deleted

                                    - The User's page was loaded

SSD: Delete Account

Operation: 20: Delete Account

Cross References: Use Cases: Delete Account

Preconditions: - The Client Software received a Delete Account Request

Postconditions: - The Server received a Delete Account Request

Operation: 21: Confirm

Cross References: Use Cases: Delete Account

Preconditions: - The Client Software received a Delete Account request

Postconditions: - A confirmation window appeared on screen

Operation: 21.1: Delete Account

Cross References: Use Cases: Delete Account

Preconditions: - A User account with UUID exists

                                 - A UserTable is Initialized

Postconditions: - A User with a UUID was removed from the UserTable

SSD : Leave Review

Operation:	Add Rating
Cross References:	Use Cases: Leave Review
Preconditions:	- The User requests to add a Rating
Postconditions:	- The Client Software received the Add Rating request

Operation:	Insert Rating
Cross References:	Use Cases: Leave Review
Preconditions:	- The Client Software received the Add Rating request
Postconditions:	- The Server had received the Add Rating request

SSD: Cancel Trip

Operation:	Cancel Trip
Cross References:	Use Cases: Cancel Trip
Preconditions:	- User requests to Cancel Trip
Postconditions:	- Client Software received request to Cancel Trip

Operation:	Confirm
Cross References:	Use Cases: Cancel Trip
Preconditions:	- Client Software received request to Cancel Trip
Postconditions:	- A Confirm Cancel window was displayed to the screen

Operation:	Cancel Trip
Cross References:	Use Cases: Cancel Trip
Preconditions:	- Client Software requests to Cancel Trip
Postconditions:	- Server received the request to cancel trip
	- Trip was canceled

SSD: Edit Trip

Operation:	Edit a Message
Cross References:	Use Cases: Edit Trip
Preconditions:	- The User requests to Edit a Message
Postconditions:	- The Client Software received a request to Edit a Message

Operation:	Message info
Cross References:	Use Cases: Edit Trip
Preconditions:	- The Client Software received a request to Edit a Message
Postconditions:	- New Message info was sent to the Client Software

Operation:	Overwrite Message
Cross References:	Use Cases: Edit Trip
Preconditions:	- The Client Software received a request to Edit a Message
Postconditions:	- The Server Overwrites the Message with the new one provided by the Client Software

C.D. Message

Operation:	Message(creator: User)
Cross References:	Use Cases: Message
Preconditions:	- Void
Postconditions:	- A new instance of Message was created

C.D. Trip

Operation: Trip(driver: User, message: Message, originTime: Date,

                                      passengerCount: Integer)

Cross References: Use Cases: Trip

Preconditions: - Void

Postconditions: - A new instance of Trip was created

Operation: insertRider(user: User)

Cross References: Use Cases: Trip

Preconditions: - Void

Postconditions: - rider was inserted into riders, if successful true was returned

                                     otherwise false

Operation: insertRequirement(requirement: String)

Cross References: Use Cases: Trip

Preconditions: - Void

Postconditions: - requirement was inserted into requirements

Operation: removeRider(user: User)

Cross References: Use Cases: Trip

Preconditions: - riders was initialized

Postconditions: - rider was removed from riders if it was there

Operation: removeRequirement(requirement: String)

Cross References: Use Cases: Trip

Preconditions: - requirements was initialized

Postconditions: - requirement was removed from requirements if it was there

C.D. User

Operation:	User(email: String, password: String)
Cross References:	Use Cases: User
Preconditions:	- Void
Postconditions:	- a new User instance was initialized
	- email and password were updated

Operation:	insertRaiting(rating: Integer)
Cross References:	Use Cases: User
Preconditions:	A User exists
Postconditions:	The User's rating is changed

Operation:	insertNotification(notification: Message)
Cross References:	Use Cases: User
Preconditions:	A User exists
Postconditions:	The User now has a notification

Operation:	removeNotification(notification: Message)
Cross References:	Use Cases: User
Preconditions:	A User exists and has a notification
Postconditions:	The User no longer has a notification

C.D. Vehicle

Operation:	Vehicle(model: String, passengerCap: Integer)
Cross References:	Use Cases: Vehicle
Preconditions:	A Vehicle does not exist
Postconditions:	A Vehicle exists

C.D. Message Table

Operation: MessageTable()

Cross References: Use Cases: Message Table

Preconditions: - Void

Postconditions: - a new MessageBoard instance was initialized

Operation: insert(message: Message)

Cross References: Use Cases: Message Table

Preconditions: - messageBoard was initialized

Postconditions: - message was inserted into MessageBoard if it was not there

Operation: removeAll(user: User)

Cross References: Use Cases: Message Table

Preconditions: - A Message Table exists

Postconditions: - the corresponding messages were removed from message table

Operation: remove(message: Message)

Cross References: Use Cases: Message Table

Preconditions: A Message Table exists

Postconditions: the corresponding message was removed from the message table

Operation: checkFor(message: Message)

Cross References: Use Cases: Message Board

Preconditions: - messageBoard was initialized

Postconditions: - true was returned if the corresponding message was there, false

otherwise

Operation: fromUser(user: User)

Cross References: Use Cases: Message Board

Preconditions: - messageBoard was initialized

Postconditions: - a Collection of the messages with the user was returned

Operation: pushReminders(date, Date)

Cross References: Use Cases: Message Table

Preconditions: A Message Table exists

Postconditions: Reminders are pushed to each user

C.D. User Table

Operation: UserTable()

Cross References: Use Cases: User Table

Preconditions: - Void

Postconditions: - a new UserTable instance was initialized

Operation: insert(user: User)

Cross References: Use Cases: User Table

Preconditions: - user was initialized

Postconditions: - user was inserted into the UserTable if it was not already there

Operation: remove(user: User)

Cross References: Use Cases: User Table

Preconditions: - UserTable was initialized

Postconditions: - A User was removed from the UserTable

Operation: checkFor(UUID: String)

Cross References: Use Cases: User Table

Preconditions: - UserTable was initialized

Postconditions: - If User with UUID was in UserTable true was returned

                              otherwise false

Operation: login(UUID: String, password: String)

Cross References: Use Cases: User Table

Preconditions: - void

Postconditions: - a User object was returned if there was such a UUID and

password was correct

Operation: authenticate(user: User)

Cross References: Use Cases: User Table

Preconditions: - A User exists within the UserTable

Postconditions: - The User is authenticated to be contained within the UserTable

Operation: logout(user: User)

Cross References: Use Cases: User Table

Preconditions: - A User is logged in

Postconditions: - A User is logged out

Operation: generateToken()

Cross References: Use Cases: User Table

Preconditions: - A User does not have a UUID token

Postconditions: - A User now has a random UUID token

C.D. Control Panel

Operation:	ControlPanel(file: File)
Cross References:	Use Cases: Control Panel
Preconditions:	- Void
Postconditions:	- A Control Panel was initialized

C.D. Message TableController

Operation: drawBoard(board: MessageBoard)

Cross References: Use Cases: UserTableInterface

Preconditions: - MessageBoard was initialized

Postconditions: - MessageBoard was drawn onto screen

Operation: drawReview(board: MessageBoard, header: MessageHeader)

Cross References: Use Cases: UserTableInterface

Preconditions: - MessageBoard and MessageHeader were initialized

Postconditions: - Review was drawn onto screen

Operation: drawReminder(board: MessageBoard, header: MessageHeader)

Cross References: Use Cases: UserTableInterface

Preconditions: - MessageBoard and MessageHeader were initialized

Postconditions: - Reminder was drawn onto screen

Operation: drawRequest(board: MessageBoard, header: MessageHeader)

Cross References: Use Cases: UserTableInterface

Preconditions: - MessageBoard and MessageHeader were initialized

Postconditions: - Request was drawn onto screen

Operation: drawOffer(board: MessageBoard, header: MessageHeader)

Cross References: Use Cases: UserTableInterface

Preconditions: - MessageBoard and MessageHeader were initialized

Postconditions: - Offer was drawn onto screen

Operation: drawService(board: MessageBoard, header: MessageHeader)

Cross References: Use Cases: UserTableInterface

Preconditions: - MessageBoard and MessageHeader were initialized

Postconditions: - Service was drawn onto screen

Operation: postReview(board: MessageBoard)

Cross References: Use Cases: UserTableInterface

Preconditions: - MessageBoard was initialized

Postconditions: - Review was stored into MessageBoard

Operation: postRequest(board: MessageBoard)

Cross References: Use Cases: UserTableInterface

Preconditions: - MessageBoard was initialized

Postconditions: - Request was stored into MessageBoard

Operation: postOffer(board: MessageBoard)

Cross References: Use Cases: UserTableInterface

Preconditions: - MessageBoard was initialized

Postconditions: - Offer was stored into MessageBoard

Operation:	postService(board: MessageBoard)
Cross References:	Use Cases: UserTableInterface
Preconditions:	- MessageBoard was initialized
Postconditions:	- Service was stored into MessageBoard

Operation:	acceptRequest(board: MessageBoard, header: MessageHeader)
Cross References:	Use Cases: UserTableInterface
Preconditions:	- MessageBoard and MessageHeader were initialized
Postconditions:	- Request of MessageHeader was accepted and stored into MessageBoard

Operation:	acceptOffer(board: MessageBoard, header: MessageHeader)
Cross References:	Use Cases: UserTableInterface
Preconditions:	- MessageBoard and MessageHeader were initialized
Postconditions:	- Offer of MessageHeader was accepted and stored into MessageBoard

Operation:	acceptService(board: MessageBoard, header: MessageHeader)
Cross References:	Use Cases: UserTableInterface
Preconditions:	- MessageBoard and MessageHeader were initialized
Postconditions:	- Service of MessageHeader was accepted and stored into MessageBoard

Operation: pushReminders()

Cross References: Use Cases: UserTableInterface

Preconditions: - MessageBoard was initialized

Postconditions: - For each person attending a Trip, a Reminder is sent to their

                      email

Operation: filterByUser(board: MessageBoard, UUID: String)

Cross References: Use Cases: UserTableInterface

Preconditions: - MessageBoard was initialized

Postconditions: - MessageBoard is filtered by UUID of all existing Users

Operation: removeFinished()

Cross References: Use Cases: UserTableInterface

Preconditions: - MessageBoard was initialized

Postconditions: - If a Trip is completed the trip is removed from the MessageBoard

C.D. Panel Controller

Operation: PanelController()

Cross References: Use Cases: Panel Controller

Preconditions: - Void

Postconditions: - A Panel Controller was initialized

Operation: changeFrame(newFrame: JPanel)

Cross References: Use Cases: Control Panel

Preconditions: - A Panel Controller exists

Postconditions: - The current GUI frame was changed to newFrame

Operation: closeFrame()

Cross References: Use Cases: Control Panel

Preconditions: - A Frame is open

Postconditions: - Shuts a Frame down and removes it from the Panel Controller

C.D. IOBuffers

Operation: IOBuffers(File file)

Cross References: Use Cases: IOBuffers

Preconditions: - An IOBuffers object does not exist

Postconditions: - An IOBuffers object has been initialized

C.D. Shutdown

Operation: Shutdown()

Cross References: Use Cases: Shutdown

Preconditions: - An Shutdown object does not exist

Postconditions: - An Shutdown object has been initialized

C.D. User TableController

Operation: login(table: UserTable)

Cross References: Use Cases: UserTableInterface

Preconditions: - Table was initialized

Postconditions: - UserTableInterface was initialized

Operation: register(table: UserTable)

Cross References: Use Cases: UserTableInterface

Preconditions: - UserTable was initialized

Postconditions: - A User was Registered with a UUID, email, password, and profile

                              Picture into the UserTable

Operation: remove(table: UserTable, user: User)

Cross References: Use Cases: UserTableInterface

Preconditions: - UserTable was initialized

Postconditions: - A User with a UUID was removed from the UserTable

Operation: recoverPassword(table: UserTable, user: User)

Cross References: Use Cases: UserTableInterface

Preconditions: - UserTable was initialized

Postconditions: - A User with a UUID was sent a recover password email

Operation:	reverifyAll(table: UserTable)
Cross References:	Use Cases: UserTableInterface
Preconditions:	- UserTable was initialized
Postconditions:	- Verification emails were sent to all existing Users

Operation:	drawProfile(table: UserTable. UUID: String)
Cross References:	Use Cases: UserTableInterface
Preconditions:	- UserTable is was initialized
Postconditions:	- User Profile of a User with a UUID was loaded onto the screen

C.D. Driver_VehicleInfoGUI

Operation:	Driver_VehicleInfoGUI(cp: ControlPanel)
Cross References:	Use Cases: Driver_VehicleInfoGUI
Preconditions:	- A ControlPanel exists, a Driver_VehicleInfoGUI does not exist
Postconditions:	- A Driver_VehicleInfoGUI was initialized

Operation:	initComponents()
Cross References:	Use Cases: Driver_VehicleInfoGUI
Preconditions:	- A Driver_VehicleInfoGUI exists with no values
Postconditions:	- A Driver_VehicleInfoGUI exists with values

C.D. HomePage GUI

Operation: HomePageGUI()

Cross References: Use Cases: HomePage GUI

Preconditions: - A HomePage GUI does not exist

Postconditions: - A HomePage GUI exists

Operation: initComponents()

Cross References: Use Cases: HomePage GUI

Preconditions: - A HomePage GUI exists with no values

Postconditions: - A HomePage GUI exists with values

C.D. LoginGUI

Operation:	LoginGUI()
Cross References:	Use Cases: LoginGUI
Preconditions:	- A LoginGUI does not exist
Postconditions:	- A LoginGUI exists

Operation:	initComponents()
Cross References:	Use Cases: LoginGUI
Preconditions:	- A LoginGUI exists with no values
Postconditions:	- A LoginGUI exists with values

C.D. MessageBoard GUI

Operation:	MessageBoardGUI()
Cross References:	Use Cases: MessageBoard GUI
Preconditions:	- A Message Board GUI does not exist
Postconditions:	- A Message Board GUI exists

Operation:	initComponents()
Cross References:	Use Cases: MessageBoard GUI
Preconditions:	- A Message Board GUI exists with no values
Postconditions:	- A Message Board GUI exists with values

C.D. Message GUI

Operation:	MessageGUI()
Cross References:	Use Cases: Message GUI
Preconditions:	- A Message GUI does not exist
Postconditions:	- A Message GUI exists

Operation:	initComponents()
Cross References:	Use Cases: Message GUI
Preconditions:	- A Message GUI exists with no values
Postconditions:	- A Message GUI exists with values

C.D. Register GUI

Operation:	RegisterGUI()
Cross References:	Use Cases: Register GUI
Preconditions:	- A Register GUI does not exist
Postconditions:	- A Register GUI exists

Operation:	initComponents()
Cross References:	Use Cases: Register GUI
Preconditions:	- A Register GUI exists with no values
Postconditions:	- A Register GUI exists with values

C.D. User GUI

Operation: UserGUI()

Cross References: Use Cases: User GUI

Preconditions: - A User GUI does not exist

Postconditions: - A User GUI exists

Operation: initComponents()

Cross References: Use Cases: User GUI

Preconditions: - A User GUI exists with no values

Postconditions: - A User GUI exists with values