Escaper

Sequence Diagram Specification

Revision: 0.2

|  |  |
| --- | --- |
| No Magic |  |
| One Allen Center, 700 Central Expressway South, Suite 110 Allen, Texas 75013 USA | Date: junio 04, 2018 |

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# Login

## Message Summary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Message Name** | **Sender** | **Receiver** | **Constraints** |
|  | 777528000.jpg | 469229824.jpg [Client](#_05ac135808c74a832a962fde26d3469d) | 469229824.jpg [Server](#_f6cb3a44771620a77bae358ebdaef5ff) |  |

## Messages

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 469229824.jpg [Client](#_05ac135808c74a832a962fde26d3469d) |
| **Receiver** | 469229824.jpg [Server](#_f6cb3a44771620a77bae358ebdaef5ff) |
| **Constraint** |  |

## Lifeline

### : User

### Client

### Server

# Statistics On Screen

## Message Summary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Message Name** | **Sender** | **Receiver** | **Constraints** |
| 1 | 777528000.jpg [RequestStatisticsPanel()](#_5e13777af724c77a89fd8bec41551f25) | -1737144090.jpg [Administrator : Actor](#_c4280548e47eb8c8450e2bdf2f5be3cb) | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |  |
| 2 | 777528000.jpg [showStatisticPanel()](#_8577056108ee350c80283ff3c27b03e8) | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |  |
| 3 | 777528000.jpg [showAllStatistics()](#_98d5507e1629ad17986b9d9b05d6bce9) | -1737144090.jpg [Administrator : Actor](#_c4280548e47eb8c8450e2bdf2f5be3cb) | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |  |
| 4 | 777528000.jpg [GetAllStatistics()](#_94848b01b8987c44bdc6dc566e7a340d) | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) | 971534706.jpg [Server : Server](#_32c22bcb86acd824335ae60a18c570d5) |  |
| 5 | 1706772953.jpg [All Statistics](#_1f8d213adab3fe71c347689a86340ced) | 971534706.jpg [Server : Server](#_32c22bcb86acd824335ae60a18c570d5) | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |  |
| 6 | 1706772953.jpg [All Statistics](#_015270db8d231fdddf8889be60c67b44) | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) | -1737144090.jpg [Administrator : Actor](#_c4280548e47eb8c8450e2bdf2f5be3cb) |  |
| 7 | 777528000.jpg [selectDesirablestatistic()](#_3774a4ef5422f7ede39691d7ef021854) | -1737144090.jpg [Administrator : Actor](#_c4280548e47eb8c8450e2bdf2f5be3cb) | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |  |
| 8 | 777528000.jpg [selectDesirablestatistic()](#_c1b4078087d31877c32be34025d696e9) | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |  |
| 9 | 1706772953.jpg [Desired Statistic](#_de395a711f7b93758ced36a1de82cb52) | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) | -1737144090.jpg [Administrator : Actor](#_c4280548e47eb8c8450e2bdf2f5be3cb) |  |

## Messages

### All Statistics

|  |  |
| --- | --- |
| **Message Sort** | reply |
| **Parameters** |  |
| **Sender** | 971534706.jpg [Server : Server](#_32c22bcb86acd824335ae60a18c570d5) |
| **Receiver** | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |
| **Constraint** |  |

### All Statistics

|  |  |
| --- | --- |
| **Message Sort** | reply |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |
| **Receiver** | -1737144090.jpg [Administrator : Actor](#_c4280548e47eb8c8450e2bdf2f5be3cb) |
| **Constraint** |  |

### Desired Statistic

|  |  |
| --- | --- |
| **Message Sort** | reply |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |
| **Receiver** | -1737144090.jpg [Administrator : Actor](#_c4280548e47eb8c8450e2bdf2f5be3cb) |
| **Constraint** |  |

### GetAllStatistics()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |
| **Receiver** | 971534706.jpg [Server : Server](#_32c22bcb86acd824335ae60a18c570d5) |
| **Constraint** |  |

### RequestStatisticsPanel()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | -1737144090.jpg [Administrator : Actor](#_c4280548e47eb8c8450e2bdf2f5be3cb) |
| **Receiver** | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |
| **Constraint** |  |

### selectDesirablestatistic()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | -1737144090.jpg [Administrator : Actor](#_c4280548e47eb8c8450e2bdf2f5be3cb) |
| **Receiver** | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |
| **Constraint** |  |

### selectDesirablestatistic()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |
| **Receiver** | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |
| **Constraint** |  |

### showAllStatistics()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | -1737144090.jpg [Administrator : Actor](#_c4280548e47eb8c8450e2bdf2f5be3cb) |
| **Receiver** | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |
| **Constraint** |  |

### showStatisticPanel()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |
| **Receiver** | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |
| **Constraint** |  |

## Lifeline

### Administrator : Actor

### Server : Server

# Register Building Owner

## Message Summary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Message Name** | **Sender** | **Receiver** | **Constraints** |
| 1 | 777528000.jpg [specifyOwnerRegistration()](#_163341b3b3bda72bc6671fae6040eb67) | -1737144090.jpg  [: Building Owner](#_588cf440d05f8a7c98ae18f47df7a4e0) | 971534706.jpg  [: Facade](#_2fdb6bc90c81d853902174f8a6f506ee) |  |
| 2 | 777528000.jpg [showRegisterScreen()](#_0c1b7adc145692ed3eee1a7fb10e63d8) | 971534706.jpg  [: Facade](#_2fdb6bc90c81d853902174f8a6f506ee) | 971534706.jpg  [: Facade](#_2fdb6bc90c81d853902174f8a6f506ee) |  |
| 3 | 777528000.jpg [introduceData()](#_894529b2594bb9ce71bd8962ecceb623) | -1737144090.jpg  [: Building Owner](#_588cf440d05f8a7c98ae18f47df7a4e0) | 971534706.jpg  [: Facade](#_2fdb6bc90c81d853902174f8a6f506ee) |  |
| 4 | 777528000.jpg [submitData()](#_dd76c135a9ec4915a5febe1ebcb3a2e3) | -1737144090.jpg  [: Building Owner](#_588cf440d05f8a7c98ae18f47df7a4e0) | 971534706.jpg  [: Facade](#_2fdb6bc90c81d853902174f8a6f506ee) |  |
| 5 | 777528000.jpg [checkData()](#_c91f04825444458c0d71aeb94c1aa6c2) | 971534706.jpg  [: Facade](#_2fdb6bc90c81d853902174f8a6f506ee) | 971534706.jpg  [: Facade](#_2fdb6bc90c81d853902174f8a6f506ee) |  |
| 6 | 777528000.jpg [sendRegisterData()](#_df0bea6de945b8009eff1346df17beeb) | 971534706.jpg  [: Facade](#_2fdb6bc90c81d853902174f8a6f506ee) | 971534706.jpg  [: Server](#_143146d91da997d107500c3d3af189ad) |  |
| 7 | 1909669277.jpg [Create new user](#_cf43fc25158d4b0d3ac0bf8361d4ede5) | 971534706.jpg  [: Server](#_143146d91da997d107500c3d3af189ad) | 971534706.jpg  [: Building Owner](#_faf6493e71c52829517cfb5f6d4e1dd8) |  |
| 8 | 777528000.jpg [setUserData()](#_7939bf63f2efd6c726c57ee120d509c9) | 971534706.jpg  [: Server](#_143146d91da997d107500c3d3af189ad) | 971534706.jpg  [: Building Owner](#_faf6493e71c52829517cfb5f6d4e1dd8) |  |
| 9 | 777528000.jpg [showErrorMessage()](#_ce0339eeb5b7a0fd1256462fa1dacdfd) | 971534706.jpg  [: Facade](#_2fdb6bc90c81d853902174f8a6f506ee) | 971534706.jpg  [: Facade](#_2fdb6bc90c81d853902174f8a6f506ee) |  |
| 10 | 777528000.jpg [restartForm()](#_d36f9b2f07c630b1073f088a09c1cf39) | 971534706.jpg  [: Facade](#_2fdb6bc90c81d853902174f8a6f506ee) | 971534706.jpg  [: Facade](#_2fdb6bc90c81d853902174f8a6f506ee) |  |

## Messages

### checkData()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_2fdb6bc90c81d853902174f8a6f506ee) |
| **Receiver** | 971534706.jpg  [: Facade](#_2fdb6bc90c81d853902174f8a6f506ee) |
| **Constraint** |  |

### Create new user

|  |  |
| --- | --- |
| **Message Sort** | createMessage |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Server](#_143146d91da997d107500c3d3af189ad) |
| **Receiver** | 971534706.jpg  [: Building Owner](#_faf6493e71c52829517cfb5f6d4e1dd8) |
| **Constraint** |  |

### introduceData()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | -1737144090.jpg  [: Building Owner](#_588cf440d05f8a7c98ae18f47df7a4e0) |
| **Receiver** | 971534706.jpg  [: Facade](#_2fdb6bc90c81d853902174f8a6f506ee) |
| **Constraint** |  |

### restartForm()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_2fdb6bc90c81d853902174f8a6f506ee) |
| **Receiver** | 971534706.jpg  [: Facade](#_2fdb6bc90c81d853902174f8a6f506ee) |
| **Constraint** |  |

### sendRegisterData()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_2fdb6bc90c81d853902174f8a6f506ee) |
| **Receiver** | 971534706.jpg  [: Server](#_143146d91da997d107500c3d3af189ad) |
| **Constraint** |  |

### setUserData()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Server](#_143146d91da997d107500c3d3af189ad) |
| **Receiver** | 971534706.jpg  [: Building Owner](#_faf6493e71c52829517cfb5f6d4e1dd8) |
| **Constraint** |  |

### showErrorMessage()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_2fdb6bc90c81d853902174f8a6f506ee) |
| **Receiver** | 971534706.jpg  [: Facade](#_2fdb6bc90c81d853902174f8a6f506ee) |
| **Constraint** |  |

### showRegisterScreen()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_2fdb6bc90c81d853902174f8a6f506ee) |
| **Receiver** | 971534706.jpg  [: Facade](#_2fdb6bc90c81d853902174f8a6f506ee) |
| **Constraint** |  |

### specifyOwnerRegistration()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | -1737144090.jpg  [: Building Owner](#_588cf440d05f8a7c98ae18f47df7a4e0) |
| **Receiver** | 971534706.jpg  [: Facade](#_2fdb6bc90c81d853902174f8a6f506ee) |
| **Constraint** |  |

### submitData()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | -1737144090.jpg  [: Building Owner](#_588cf440d05f8a7c98ae18f47df7a4e0) |
| **Receiver** | 971534706.jpg  [: Facade](#_2fdb6bc90c81d853902174f8a6f506ee) |
| **Constraint** |  |

## Lifeline

### : Facade

### : Building Owner

### : Server

### : Building Owner

# Change User

## Message Summary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Message Name** | **Sender** | **Receiver** | **Constraints** |
| 1 | 777528000.jpg [selectUser()](#_da0c6895d4d15281c0b927148e45a7c5) | -1737144090.jpg  [: Administrator](#_c38bca91b476f59cbc79d68050c2635b) | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |  |
| 2 | 777528000.jpg [GetUser()](#_617a76250df5c7b3913dfe02fc4afff1) | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) | 971534706.jpg  [: User](#_1c106594d401b8f1606608dcfe5be41b) |  |
| 3 | 1706772953.jpg [UserSelected](#_6f1a959b4f1186bb4d2b1e8c7f054991) | 971534706.jpg  [: User](#_1c106594d401b8f1606608dcfe5be41b) | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |  |
| 4 | 777528000.jpg [modifyUser()](#_1b811f58a637170a1586701a3c830fcd) | -1737144090.jpg  [: Administrator](#_c38bca91b476f59cbc79d68050c2635b) | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |  |
| 5 | 777528000.jpg [saveChanges()](#_7b7a29b7043a72f6e25a956804af2ef3) | -1737144090.jpg  [: Administrator](#_c38bca91b476f59cbc79d68050c2635b) | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |  |
| 6 | 777528000.jpg [FillData()](#_e813c9b15cb74c535d412011d2a4dd5d) | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) | 971534706.jpg  [: User](#_1c106594d401b8f1606608dcfe5be41b) |  |
| 7 | 1706772953.jpg [DataFilled](#_7cced7d94281bf77a2bc00544061be64) | 971534706.jpg  [: User](#_1c106594d401b8f1606608dcfe5be41b) | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |  |
| 8 | 1706772953.jpg [userModified](#_169dd69d7f61e85fe3b7d09291baf6d8) | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) | -1737144090.jpg  [: Administrator](#_c38bca91b476f59cbc79d68050c2635b) |  |

## Messages

### DataFilled

|  |  |
| --- | --- |
| **Message Sort** | reply |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: User](#_1c106594d401b8f1606608dcfe5be41b) |
| **Receiver** | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |
| **Constraint** |  |

### FillData()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |
| **Receiver** | 971534706.jpg  [: User](#_1c106594d401b8f1606608dcfe5be41b) |
| **Constraint** |  |

### GetUser()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |
| **Receiver** | 971534706.jpg  [: User](#_1c106594d401b8f1606608dcfe5be41b) |
| **Constraint** |  |

### modifyUser()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | -1737144090.jpg  [: Administrator](#_c38bca91b476f59cbc79d68050c2635b) |
| **Receiver** | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |
| **Constraint** |  |

### saveChanges()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | -1737144090.jpg  [: Administrator](#_c38bca91b476f59cbc79d68050c2635b) |
| **Receiver** | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |
| **Constraint** |  |

### selectUser()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | -1737144090.jpg  [: Administrator](#_c38bca91b476f59cbc79d68050c2635b) |
| **Receiver** | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |
| **Constraint** |  |

### userModified

|  |  |
| --- | --- |
| **Message Sort** | reply |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |
| **Receiver** | -1737144090.jpg  [: Administrator](#_c38bca91b476f59cbc79d68050c2635b) |
| **Constraint** |  |

### UserSelected

|  |  |
| --- | --- |
| **Message Sort** | reply |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: User](#_1c106594d401b8f1606608dcfe5be41b) |
| **Receiver** | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |
| **Constraint** |  |

## Lifeline

### : Administrator

### : User

# Manage Building Plans

## Message Summary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Message Name** | **Sender** | **Receiver** | **Constraints** |
| 1 | 777528000.jpg [manageBuilding()](#_d49048cdc5de7dfa214eb2346ac22810) | 971534706.jpg  [: BuildingOwner](#_25f4487a4723af61c5bf4591c93f54da) | 971534706.jpg  [: Facade](#_5bc93ad0ffb0ab9c1cc06738a57e81fb) |  |
| 2 | 777528000.jpg [manageBuilding()](#_ed40f720cdf62b551b6b0e3b777d827d) | 971534706.jpg  [: Facade](#_5bc93ad0ffb0ab9c1cc06738a57e81fb) | 971534706.jpg  [: BuildingManager](#_3274bd8c16edc4bb23a3d8900f22d15e) |  |
| 3 | 777528000.jpg [getBuilding()](#_c4b338c758da90eee25dce80e9ae55c0) | 971534706.jpg  [: BuildingManager](#_3274bd8c16edc4bb23a3d8900f22d15e) | 971534706.jpg  [: Building1](#_cb2edf6d9e34f50025d6fd0cb7fdd6fd) |  |
| 4 | 983147593.jpg [Building](#_4e7981555b8f4c93fc8a6d0d5cf23911) | 971534706.jpg  [: Building1](#_cb2edf6d9e34f50025d6fd0cb7fdd6fd) | 971534706.jpg  [: Facade](#_5bc93ad0ffb0ab9c1cc06738a57e81fb) |  |
| 5 | 777528000.jpg [Building](#_5bd46e62ff10841505fb283cab51c3f7) | 971534706.jpg  [: Facade](#_5bc93ad0ffb0ab9c1cc06738a57e81fb) | 971534706.jpg  [: BuildingOwner](#_25f4487a4723af61c5bf4591c93f54da) |  |
| 6 | 777528000.jpg [setName()](#_b33f4c25da0473e6cf7b86f2f9a941b5) | 971534706.jpg  [: BuildingOwner](#_25f4487a4723af61c5bf4591c93f54da) | 971534706.jpg  [: Facade](#_5bc93ad0ffb0ab9c1cc06738a57e81fb) |  |
| 7 | 777528000.jpg [setName()](#_2acb62d73641fa2a1be0b5be5d926a4d) | 971534706.jpg  [: Facade](#_5bc93ad0ffb0ab9c1cc06738a57e81fb) | 971534706.jpg  [: Building1](#_cb2edf6d9e34f50025d6fd0cb7fdd6fd) |  |
| 8 | 777528000.jpg [changeMap](#_cc38fedeb7eecde6700e220deead806d) | 971534706.jpg  [: BuildingOwner](#_25f4487a4723af61c5bf4591c93f54da) | 971534706.jpg  [: Facade](#_5bc93ad0ffb0ab9c1cc06738a57e81fb) |  |
| 9 | 777528000.jpg [changeMap()](#_69863943658968d9697b1a5d8743043c) | 971534706.jpg  [: Facade](#_5bc93ad0ffb0ab9c1cc06738a57e81fb) | 971534706.jpg  [: Building1](#_cb2edf6d9e34f50025d6fd0cb7fdd6fd) |  |
| 10 | 1706772953.jpg [Map changed](#_5e443c014450a164468865fb980c4bbb) | 971534706.jpg  [: Building1](#_cb2edf6d9e34f50025d6fd0cb7fdd6fd) | 971534706.jpg  [: Facade](#_5bc93ad0ffb0ab9c1cc06738a57e81fb) |  |
| 11 | 1706772953.jpg [Map changed](#_b8a75546133506dc25fb60b4a68c2caa) | 971534706.jpg  [: Facade](#_5bc93ad0ffb0ab9c1cc06738a57e81fb) | 971534706.jpg  [: BuildingOwner](#_25f4487a4723af61c5bf4591c93f54da) |  |

## Messages

### Building

|  |  |
| --- | --- |
| **Message Sort** | asynchSignal |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Building1](#_cb2edf6d9e34f50025d6fd0cb7fdd6fd) |
| **Receiver** | 971534706.jpg  [: Facade](#_5bc93ad0ffb0ab9c1cc06738a57e81fb) |
| **Constraint** |  |

### Building

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_5bc93ad0ffb0ab9c1cc06738a57e81fb) |
| **Receiver** | 971534706.jpg  [: BuildingOwner](#_25f4487a4723af61c5bf4591c93f54da) |
| **Constraint** |  |

### changeMap

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: BuildingOwner](#_25f4487a4723af61c5bf4591c93f54da) |
| **Receiver** | 971534706.jpg  [: Facade](#_5bc93ad0ffb0ab9c1cc06738a57e81fb) |
| **Constraint** |  |

### changeMap()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_5bc93ad0ffb0ab9c1cc06738a57e81fb) |
| **Receiver** | 971534706.jpg  [: Building1](#_cb2edf6d9e34f50025d6fd0cb7fdd6fd) |
| **Constraint** |  |

### getBuilding()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: BuildingManager](#_3274bd8c16edc4bb23a3d8900f22d15e) |
| **Receiver** | 971534706.jpg  [: Building1](#_cb2edf6d9e34f50025d6fd0cb7fdd6fd) |
| **Constraint** |  |

### manageBuilding()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: BuildingOwner](#_25f4487a4723af61c5bf4591c93f54da) |
| **Receiver** | 971534706.jpg  [: Facade](#_5bc93ad0ffb0ab9c1cc06738a57e81fb) |
| **Constraint** |  |

### manageBuilding()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_5bc93ad0ffb0ab9c1cc06738a57e81fb) |
| **Receiver** | 971534706.jpg  [: BuildingManager](#_3274bd8c16edc4bb23a3d8900f22d15e) |
| **Constraint** |  |

### Map changed

|  |  |
| --- | --- |
| **Message Sort** | reply |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Building1](#_cb2edf6d9e34f50025d6fd0cb7fdd6fd) |
| **Receiver** | 971534706.jpg  [: Facade](#_5bc93ad0ffb0ab9c1cc06738a57e81fb) |
| **Constraint** |  |

### Map changed

|  |  |
| --- | --- |
| **Message Sort** | reply |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_5bc93ad0ffb0ab9c1cc06738a57e81fb) |
| **Receiver** | 971534706.jpg  [: BuildingOwner](#_25f4487a4723af61c5bf4591c93f54da) |
| **Constraint** |  |

### setName()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: BuildingOwner](#_25f4487a4723af61c5bf4591c93f54da) |
| **Receiver** | 971534706.jpg  [: Facade](#_5bc93ad0ffb0ab9c1cc06738a57e81fb) |
| **Constraint** |  |

### setName()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_5bc93ad0ffb0ab9c1cc06738a57e81fb) |
| **Receiver** | 971534706.jpg  [: Building1](#_cb2edf6d9e34f50025d6fd0cb7fdd6fd) |
| **Constraint** |  |

## Lifeline

### : BuildingManager

### : BuildingOwner

### : Building1

### : Facade

# Register User

# Register

## Message Summary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Message Name** | **Sender** | **Receiver** | **Constraints** |
| 1 | 777528000.jpg [requestRegistration()](#_316119d25ed2a81f3c412814d1077b64) | -1737144090.jpg  [: User](#_309fa3360d5fb378f19a27dbed543686) | 971534706.jpg  [: Facade](#_4026ddb49b82c18fd766b3721d1cbb25) |  |
| 2 | 777528000.jpg [showRegisterScreen()](#_971a7fa1f2374b21c85f944640141725) | 971534706.jpg  [: Facade](#_4026ddb49b82c18fd766b3721d1cbb25) | 971534706.jpg  [: Facade](#_4026ddb49b82c18fd766b3721d1cbb25) |  |
| 3 | 777528000.jpg [introduceData()](#_f80b7a6e4f67a335c9266c2324c6a7fe) | -1737144090.jpg  [: User](#_309fa3360d5fb378f19a27dbed543686) | 971534706.jpg  [: Facade](#_4026ddb49b82c18fd766b3721d1cbb25) |  |
| 4 | 777528000.jpg [submitData()](#_35b3e19e3f0fb44b58ddc54a7d539ed5) | -1737144090.jpg  [: User](#_309fa3360d5fb378f19a27dbed543686) | 971534706.jpg  [: Facade](#_4026ddb49b82c18fd766b3721d1cbb25) |  |
| 5 | 777528000.jpg [checkData()](#_646cc61e63459cec8c6de9ece506534c) | 971534706.jpg  [: Facade](#_4026ddb49b82c18fd766b3721d1cbb25) | 971534706.jpg  [: Facade](#_4026ddb49b82c18fd766b3721d1cbb25) |  |
| 6 | 777528000.jpg [sendRegisterData()](#_5ad32e109618c568881b00d0b5ed7ee7) | 971534706.jpg  [: Facade](#_4026ddb49b82c18fd766b3721d1cbb25) | 971534706.jpg  [: Server](#_f83540d03443008ab4b7e897f4a8826c) |  |
| 7 | 1909669277.jpg [Create new user](#_afe4c3fb28203a2afee50b783a949ac2) | 971534706.jpg  [: Server](#_f83540d03443008ab4b7e897f4a8826c) | 971534706.jpg  [: User](#_6b7c7cd102f44928b9a8175190bd35fa) |  |
| 8 | 777528000.jpg [setUserData()](#_46c04f841eba33710095595501541efb) | 971534706.jpg  [: Server](#_f83540d03443008ab4b7e897f4a8826c) | 971534706.jpg  [: User](#_6b7c7cd102f44928b9a8175190bd35fa) |  |
| 9 | 777528000.jpg [showErrorMessage()](#_9e0d578aeaa1d861639f2d90369902fa) | 971534706.jpg  [: Facade](#_4026ddb49b82c18fd766b3721d1cbb25) | 971534706.jpg  [: Facade](#_4026ddb49b82c18fd766b3721d1cbb25) |  |
| 10 | 777528000.jpg [restartForm()](#_963c045fb7106e558341fffdc6d0286c) | 971534706.jpg  [: Facade](#_4026ddb49b82c18fd766b3721d1cbb25) | 971534706.jpg  [: Facade](#_4026ddb49b82c18fd766b3721d1cbb25) |  |

## Messages

### checkData()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_4026ddb49b82c18fd766b3721d1cbb25) |
| **Receiver** | 971534706.jpg  [: Facade](#_4026ddb49b82c18fd766b3721d1cbb25) |
| **Constraint** |  |

### Create new user

|  |  |
| --- | --- |
| **Message Sort** | createMessage |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Server](#_f83540d03443008ab4b7e897f4a8826c) |
| **Receiver** | 971534706.jpg  [: User](#_6b7c7cd102f44928b9a8175190bd35fa) |
| **Constraint** |  |

### introduceData()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | -1737144090.jpg  [: User](#_309fa3360d5fb378f19a27dbed543686) |
| **Receiver** | 971534706.jpg  [: Facade](#_4026ddb49b82c18fd766b3721d1cbb25) |
| **Constraint** |  |

### requestRegistration()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | -1737144090.jpg  [: User](#_309fa3360d5fb378f19a27dbed543686) |
| **Receiver** | 971534706.jpg  [: Facade](#_4026ddb49b82c18fd766b3721d1cbb25) |
| **Constraint** |  |

### restartForm()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_4026ddb49b82c18fd766b3721d1cbb25) |
| **Receiver** | 971534706.jpg  [: Facade](#_4026ddb49b82c18fd766b3721d1cbb25) |
| **Constraint** |  |

### sendRegisterData()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_4026ddb49b82c18fd766b3721d1cbb25) |
| **Receiver** | 971534706.jpg  [: Server](#_f83540d03443008ab4b7e897f4a8826c) |
| **Constraint** |  |

### setUserData()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Server](#_f83540d03443008ab4b7e897f4a8826c) |
| **Receiver** | 971534706.jpg  [: User](#_6b7c7cd102f44928b9a8175190bd35fa) |
| **Constraint** |  |

### showErrorMessage()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_4026ddb49b82c18fd766b3721d1cbb25) |
| **Receiver** | 971534706.jpg  [: Facade](#_4026ddb49b82c18fd766b3721d1cbb25) |
| **Constraint** |  |

### showRegisterScreen()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_4026ddb49b82c18fd766b3721d1cbb25) |
| **Receiver** | 971534706.jpg  [: Facade](#_4026ddb49b82c18fd766b3721d1cbb25) |
| **Constraint** |  |

### submitData()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | -1737144090.jpg  [: User](#_309fa3360d5fb378f19a27dbed543686) |
| **Receiver** | 971534706.jpg  [: Facade](#_4026ddb49b82c18fd766b3721d1cbb25) |
| **Constraint** |  |

## Lifeline

### : User

### : Facade

### : Server

### : User

# Delete User

## Message Summary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Message Name** | **Sender** | **Receiver** | **Constraints** |
| 1 | 777528000.jpg [selectUser()](#_76acbe74706223d72a2e2c8ee516b098) | -1737144090.jpg  [: Administrator](#_a5190c326367efe5901cdbecfaccb0b1) | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |  |
| 2 | 777528000.jpg [GetUser()](#_e0f5aeb2e1f38d82aab34a0d46db6123) | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) | 971534706.jpg  [: User](#_16350b982f47447e6459cf6eb2a130d7) |  |
| 3 | 1706772953.jpg [UserSelected](#_3ba15971c9a02e1469222aa92d5bd0dc) | 971534706.jpg  [: User](#_16350b982f47447e6459cf6eb2a130d7) | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |  |
| 4 | 777528000.jpg [chooseUserToDelete()](#_0195346f8ecba0f5d1a13acb6ff5ae5e) | -1737144090.jpg  [: Administrator](#_a5190c326367efe5901cdbecfaccb0b1) | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |  |
| 5 | 777528000.jpg [DeleteUser()](#_ad7e394edf3c472d3054de8060bf83d5) | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) | 971534706.jpg  [: User](#_16350b982f47447e6459cf6eb2a130d7) |  |
| 6 | 1706772953.jpg [userDeleted](#_77fc2966bac51a8391aab8badcc06433) | 971534706.jpg  [: User](#_16350b982f47447e6459cf6eb2a130d7) | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |  |
| 7 | 1706772953.jpg [userDeleted](#_b50747b09e7cb7ab3f1b23875788f889) | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) | -1737144090.jpg  [: Administrator](#_a5190c326367efe5901cdbecfaccb0b1) |  |

## Messages

### chooseUserToDelete()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | -1737144090.jpg  [: Administrator](#_a5190c326367efe5901cdbecfaccb0b1) |
| **Receiver** | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |
| **Constraint** |  |

### DeleteUser()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |
| **Receiver** | 971534706.jpg  [: User](#_16350b982f47447e6459cf6eb2a130d7) |
| **Constraint** |  |

### GetUser()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |
| **Receiver** | 971534706.jpg  [: User](#_16350b982f47447e6459cf6eb2a130d7) |
| **Constraint** |  |

### selectUser()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | -1737144090.jpg  [: Administrator](#_a5190c326367efe5901cdbecfaccb0b1) |
| **Receiver** | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |
| **Constraint** |  |

### userDeleted

|  |  |
| --- | --- |
| **Message Sort** | reply |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: User](#_16350b982f47447e6459cf6eb2a130d7) |
| **Receiver** | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |
| **Constraint** |  |

### userDeleted

|  |  |
| --- | --- |
| **Message Sort** | reply |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |
| **Receiver** | -1737144090.jpg  [: Administrator](#_a5190c326367efe5901cdbecfaccb0b1) |
| **Constraint** |  |

### UserSelected

|  |  |
| --- | --- |
| **Message Sort** | reply |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: User](#_16350b982f47447e6459cf6eb2a130d7) |
| **Receiver** | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |
| **Constraint** |  |

## Lifeline

### : Administrator

### : User

# Login

## Message Summary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Message Name** | **Sender** | **Receiver** | **Constraints** |
| 1 | 777528000.jpg [logIn()](#_6a1daccf31a25e1c8d31af2d74d9fb45) | -1737144090.jpg  [: User](#_fc9c9db7dbfb263449680753293d199c) | 971534706.jpg  [: Facade](#_a8309b8c6c0c68ee4f5aa352338600e8) |  |
| 2 | 777528000.jpg [showLoginScreen()](#_c915a4b762aeafd0d53cac4a7ef15b54) | 971534706.jpg  [: Facade](#_a8309b8c6c0c68ee4f5aa352338600e8) | 971534706.jpg  [: Facade](#_a8309b8c6c0c68ee4f5aa352338600e8) |  |
| 3 | 777528000.jpg [sendLoginData()](#_0ef28f9e4b51fbebce0650decd1313f4) | -1737144090.jpg  [: User](#_fc9c9db7dbfb263449680753293d199c) | 971534706.jpg  [: Facade](#_a8309b8c6c0c68ee4f5aa352338600e8) |  |
| 4 | 777528000.jpg [validateData()](#_4c6502435523f2a7992daeca16285cd6) | 971534706.jpg  [: Facade](#_a8309b8c6c0c68ee4f5aa352338600e8) | 971534706.jpg  [: Server](#_9c945d8926aeac12dc473261fc9115da) |  |
| 5 | 777528000.jpg [checkData()](#_5e34e18b7a087da345d0d89272155b1c) | 971534706.jpg  [: Server](#_9c945d8926aeac12dc473261fc9115da) | 971534706.jpg  [: Server](#_9c945d8926aeac12dc473261fc9115da) |  |
| 6 | 983147593.jpg [validate()](#_be170011699633766944f7525d799703) | 971534706.jpg  [: Server](#_9c945d8926aeac12dc473261fc9115da) | 971534706.jpg  [: Facade](#_a8309b8c6c0c68ee4f5aa352338600e8) |  |
| 7 | 1706772953.jpg [dataCorrect](#_e7e33d5908132d4b4a8a4e3cb5fc0c36) | 971534706.jpg  [: Facade](#_a8309b8c6c0c68ee4f5aa352338600e8) | -1737144090.jpg  [: User](#_fc9c9db7dbfb263449680753293d199c) |  |
| 8 | 1706772953.jpg [dataNotCorrect](#_e8b09497dd2834df4399e7b0263ec042) | 971534706.jpg  [: Server](#_9c945d8926aeac12dc473261fc9115da) | 971534706.jpg  [: Facade](#_a8309b8c6c0c68ee4f5aa352338600e8) |  |
| 9 | 777528000.jpg [showErrorMessage](#_ed3d57a274b964abbd665f9b77ed78ee) | 971534706.jpg  [: Facade](#_a8309b8c6c0c68ee4f5aa352338600e8) | 971534706.jpg  [: Facade](#_a8309b8c6c0c68ee4f5aa352338600e8) |  |
| 10 | 777528000.jpg [restartForm](#_d0dfa938ef5e318b211198d3dc1ac390) | 971534706.jpg  [: Facade](#_a8309b8c6c0c68ee4f5aa352338600e8) | 971534706.jpg  [: Facade](#_a8309b8c6c0c68ee4f5aa352338600e8) |  |

## Messages

### checkData()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Server](#_9c945d8926aeac12dc473261fc9115da) |
| **Receiver** | 971534706.jpg  [: Server](#_9c945d8926aeac12dc473261fc9115da) |
| **Constraint** |  |

### dataCorrect

|  |  |
| --- | --- |
| **Message Sort** | reply |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_a8309b8c6c0c68ee4f5aa352338600e8) |
| **Receiver** | -1737144090.jpg  [: User](#_fc9c9db7dbfb263449680753293d199c) |
| **Constraint** |  |

### dataNotCorrect

|  |  |
| --- | --- |
| **Message Sort** | reply |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Server](#_9c945d8926aeac12dc473261fc9115da) |
| **Receiver** | 971534706.jpg  [: Facade](#_a8309b8c6c0c68ee4f5aa352338600e8) |
| **Constraint** |  |

### logIn()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | -1737144090.jpg  [: User](#_fc9c9db7dbfb263449680753293d199c) |
| **Receiver** | 971534706.jpg  [: Facade](#_a8309b8c6c0c68ee4f5aa352338600e8) |
| **Constraint** |  |

### restartForm

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_a8309b8c6c0c68ee4f5aa352338600e8) |
| **Receiver** | 971534706.jpg  [: Facade](#_a8309b8c6c0c68ee4f5aa352338600e8) |
| **Constraint** |  |

### sendLoginData()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | -1737144090.jpg  [: User](#_fc9c9db7dbfb263449680753293d199c) |
| **Receiver** | 971534706.jpg  [: Facade](#_a8309b8c6c0c68ee4f5aa352338600e8) |
| **Constraint** |  |

### showErrorMessage

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_a8309b8c6c0c68ee4f5aa352338600e8) |
| **Receiver** | 971534706.jpg  [: Facade](#_a8309b8c6c0c68ee4f5aa352338600e8) |
| **Constraint** |  |

### showLoginScreen()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_a8309b8c6c0c68ee4f5aa352338600e8) |
| **Receiver** | 971534706.jpg  [: Facade](#_a8309b8c6c0c68ee4f5aa352338600e8) |
| **Constraint** |  |

### validate()

|  |  |
| --- | --- |
| **Message Sort** | asynchSignal |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Server](#_9c945d8926aeac12dc473261fc9115da) |
| **Receiver** | 971534706.jpg  [: Facade](#_a8309b8c6c0c68ee4f5aa352338600e8) |
| **Constraint** |  |

### validateData()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_a8309b8c6c0c68ee4f5aa352338600e8) |
| **Receiver** | 971534706.jpg  [: Server](#_9c945d8926aeac12dc473261fc9115da) |
| **Constraint** |  |

## Lifeline

### : User

### : Facade

### : Server

# Upload Building Plan

## Message Summary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Message Name** | **Sender** | **Receiver** | **Constraints** |
| 1 | 777528000.jpg [manageBuilding()](#_bcd5dab326e512255f3eaf18c9a812eb) | -1737144090.jpg  [: Building Owner](#_f1210ec82ae1b82bf526ff78dce3a73c) | 971534706.jpg  [: Facade](#_0f44c977a2d78c0503c32557d92a6660) |  |
| 2 | 777528000.jpg [create()](#_a638dc3b20882b8481e1ecd9ec53925c) | 971534706.jpg  [: Facade](#_0f44c977a2d78c0503c32557d92a6660) | 971534706.jpg  [: BuildingManager](#_d938818c3934ae5961af8d8cd986e609) |  |
| 3 | 777528000.jpg [getBuilding()](#_7fb4ddc7f8d6763ec26570bcc42e425b) | 971534706.jpg  [: BuildingManager](#_d938818c3934ae5961af8d8cd986e609) | 971534706.jpg  [: Building1](#_f90913f65748bedaf231cdc93feed54c) |  |
| 4 | 777528000.jpg [Building](#_a769e8f6db2ff7ed8aecaff35581f271) | 971534706.jpg  [: Building1](#_f90913f65748bedaf231cdc93feed54c) | 971534706.jpg  [: Facade](#_0f44c977a2d78c0503c32557d92a6660) |  |
| 5 | 777528000.jpg [Building](#_4dad94bb547889bd12078c0805b7af94) | 971534706.jpg  [: Facade](#_0f44c977a2d78c0503c32557d92a6660) | -1737144090.jpg  [: Building Owner](#_f1210ec82ae1b82bf526ff78dce3a73c) |  |
| 6 | 777528000.jpg [uploadMapFromTestFile()](#_68817a1a52d7b34ad29507c8db338ddf) | -1737144090.jpg  [: Building Owner](#_f1210ec82ae1b82bf526ff78dce3a73c) | 971534706.jpg  [: Facade](#_0f44c977a2d78c0503c32557d92a6660) |  |
| 7 | 777528000.jpg [uploadMapFromTestFile()](#_0b7f6ebbb3e027af70bdda1cdf227867) | 971534706.jpg  [: Facade](#_0f44c977a2d78c0503c32557d92a6660) | 971534706.jpg  [: Building1](#_f90913f65748bedaf231cdc93feed54c) |  |
| 8 | 1706772953.jpg [mapUploaded](#_fcbdc3a1ecbafd5e04c17637c52d9314) | 971534706.jpg  [: Building1](#_f90913f65748bedaf231cdc93feed54c) | 971534706.jpg  [: Facade](#_0f44c977a2d78c0503c32557d92a6660) |  |
| 9 | 1706772953.jpg [mapUploaded](#_e6e5dc2e85cfa548ac83e79cb2f5ff26) | 971534706.jpg  [: Facade](#_0f44c977a2d78c0503c32557d92a6660) | -1737144090.jpg  [: Building Owner](#_f1210ec82ae1b82bf526ff78dce3a73c) |  |

## Messages

### Building

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Building1](#_f90913f65748bedaf231cdc93feed54c) |
| **Receiver** | 971534706.jpg  [: Facade](#_0f44c977a2d78c0503c32557d92a6660) |
| **Constraint** |  |

### Building

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_0f44c977a2d78c0503c32557d92a6660) |
| **Receiver** | -1737144090.jpg  [: Building Owner](#_f1210ec82ae1b82bf526ff78dce3a73c) |
| **Constraint** |  |

### create()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_0f44c977a2d78c0503c32557d92a6660) |
| **Receiver** | 971534706.jpg  [: BuildingManager](#_d938818c3934ae5961af8d8cd986e609) |
| **Constraint** |  |

### getBuilding()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: BuildingManager](#_d938818c3934ae5961af8d8cd986e609) |
| **Receiver** | 971534706.jpg  [: Building1](#_f90913f65748bedaf231cdc93feed54c) |
| **Constraint** |  |

### manageBuilding()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | -1737144090.jpg  [: Building Owner](#_f1210ec82ae1b82bf526ff78dce3a73c) |
| **Receiver** | 971534706.jpg  [: Facade](#_0f44c977a2d78c0503c32557d92a6660) |
| **Constraint** |  |

### mapUploaded

|  |  |
| --- | --- |
| **Message Sort** | reply |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Building1](#_f90913f65748bedaf231cdc93feed54c) |
| **Receiver** | 971534706.jpg  [: Facade](#_0f44c977a2d78c0503c32557d92a6660) |
| **Constraint** |  |

### mapUploaded

|  |  |
| --- | --- |
| **Message Sort** | reply |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_0f44c977a2d78c0503c32557d92a6660) |
| **Receiver** | -1737144090.jpg  [: Building Owner](#_f1210ec82ae1b82bf526ff78dce3a73c) |
| **Constraint** |  |

### uploadMapFromTestFile()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | -1737144090.jpg  [: Building Owner](#_f1210ec82ae1b82bf526ff78dce3a73c) |
| **Receiver** | 971534706.jpg  [: Facade](#_0f44c977a2d78c0503c32557d92a6660) |
| **Constraint** |  |

### uploadMapFromTestFile()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_0f44c977a2d78c0503c32557d92a6660) |
| **Receiver** | 971534706.jpg  [: Building1](#_f90913f65748bedaf231cdc93feed54c) |
| **Constraint** |  |

## Lifeline

### : BuildingManager

### : Building Owner

### : Building1

### : Facade

# Delete Building Plan

## Message Summary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Message Name** | **Sender** | **Receiver** | **Constraints** |
| 1 | 777528000.jpg [manageBuilding()](#_b73da6c0da2721eeac83ff22a642edbc) | 971534706.jpg  [: BuildingOwner](#_3addeedb6eeb2823062af309befa10d6) | 971534706.jpg  [: Facade](#_2c75966761225f10d6a61918d3c577d0) |  |
| 2 | 777528000.jpg [manageBuilding()](#_79f9cb1540fce53eedc8c95866788431) | 971534706.jpg  [: Facade](#_2c75966761225f10d6a61918d3c577d0) | 971534706.jpg  [: BuildingManager](#_71dc30e2408c947b2dceb08ffb8d1702) |  |
| 3 | 777528000.jpg [getBuilding()](#_f9ce4fee6e65714ca9da6b44d8f595cd) | 971534706.jpg  [: BuildingManager](#_71dc30e2408c947b2dceb08ffb8d1702) | 971534706.jpg  [: Building1](#_41249971180ec02270e25e8af507e531) |  |
| 4 | 983147593.jpg [Building](#_62c6da4ce2ea35396e9c67622f934482) | 971534706.jpg  [: Building1](#_41249971180ec02270e25e8af507e531) | 971534706.jpg  [: Facade](#_2c75966761225f10d6a61918d3c577d0) |  |
| 5 | 983147593.jpg [Building](#_9d871025313d65c5fbb3000cb647d21b) | 971534706.jpg  [: Facade](#_2c75966761225f10d6a61918d3c577d0) | 971534706.jpg  [: BuildingOwner](#_3addeedb6eeb2823062af309befa10d6) |  |
| 6 | 777528000.jpg [deleteMap()](#_141254fa3e540822ee31201832bb5f27) | 971534706.jpg  [: BuildingOwner](#_3addeedb6eeb2823062af309befa10d6) | 971534706.jpg  [: Facade](#_2c75966761225f10d6a61918d3c577d0) |  |
| 7 | 777528000.jpg [deleteMap()](#_bd1fa7608f46d931013bdce4c846744b) | 971534706.jpg  [: Facade](#_2c75966761225f10d6a61918d3c577d0) | 971534706.jpg  [: Building1](#_41249971180ec02270e25e8af507e531) |  |
| 8 | 1706772953.jpg [Map Deleted](#_133bd3204dbeb08b45c0438b426b9114) | 971534706.jpg  [: Building1](#_41249971180ec02270e25e8af507e531) | 971534706.jpg  [: Facade](#_2c75966761225f10d6a61918d3c577d0) |  |
| 9 | 1706772953.jpg [Map Deleted](#_669296213cd516155a2d54a3e6ae2c6e) | 971534706.jpg  [: Facade](#_2c75966761225f10d6a61918d3c577d0) | 971534706.jpg  [: BuildingOwner](#_3addeedb6eeb2823062af309befa10d6) |  |

## Messages

### Building

|  |  |
| --- | --- |
| **Message Sort** | asynchSignal |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Building1](#_41249971180ec02270e25e8af507e531) |
| **Receiver** | 971534706.jpg  [: Facade](#_2c75966761225f10d6a61918d3c577d0) |
| **Constraint** |  |

### Building

|  |  |
| --- | --- |
| **Message Sort** | asynchSignal |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_2c75966761225f10d6a61918d3c577d0) |
| **Receiver** | 971534706.jpg  [: BuildingOwner](#_3addeedb6eeb2823062af309befa10d6) |
| **Constraint** |  |

### deleteMap()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: BuildingOwner](#_3addeedb6eeb2823062af309befa10d6) |
| **Receiver** | 971534706.jpg  [: Facade](#_2c75966761225f10d6a61918d3c577d0) |
| **Constraint** |  |

### deleteMap()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_2c75966761225f10d6a61918d3c577d0) |
| **Receiver** | 971534706.jpg  [: Building1](#_41249971180ec02270e25e8af507e531) |
| **Constraint** |  |

### getBuilding()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: BuildingManager](#_71dc30e2408c947b2dceb08ffb8d1702) |
| **Receiver** | 971534706.jpg  [: Building1](#_41249971180ec02270e25e8af507e531) |
| **Constraint** |  |

### manageBuilding()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: BuildingOwner](#_3addeedb6eeb2823062af309befa10d6) |
| **Receiver** | 971534706.jpg  [: Facade](#_2c75966761225f10d6a61918d3c577d0) |
| **Constraint** |  |

### manageBuilding()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_2c75966761225f10d6a61918d3c577d0) |
| **Receiver** | 971534706.jpg  [: BuildingManager](#_71dc30e2408c947b2dceb08ffb8d1702) |
| **Constraint** |  |

### Map Deleted

|  |  |
| --- | --- |
| **Message Sort** | reply |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Building1](#_41249971180ec02270e25e8af507e531) |
| **Receiver** | 971534706.jpg  [: Facade](#_2c75966761225f10d6a61918d3c577d0) |
| **Constraint** |  |

### Map Deleted

|  |  |
| --- | --- |
| **Message Sort** | reply |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_2c75966761225f10d6a61918d3c577d0) |
| **Receiver** | 971534706.jpg  [: BuildingOwner](#_3addeedb6eeb2823062af309befa10d6) |
| **Constraint** |  |

## Lifeline

### : BuildingOwner

### : BuildingManager

### : Building1

### : Facade

## Message Summary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Message Name** | **Sender** | **Receiver** | **Constraints** |
|  | 777528000.jpg | 469229824.jpg [StartFinishSession](#_98bb0d37e2f73fb55cd018e2d77db7ad) | 469229824.jpg [GetRouteToEscape](#_ad678578975ca0d7d8bc259e1021d4d8) |  |

## Messages

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 469229824.jpg [StartFinishSession](#_98bb0d37e2f73fb55cd018e2d77db7ad) |
| **Receiver** | 469229824.jpg [GetRouteToEscape](#_ad678578975ca0d7d8bc259e1021d4d8) |
| **Constraint** |  |

## Lifeline

### GetAlternativeRoute

### GetRouteToEscape

### StartFinishSession

# Statistic By Printer

## Message Summary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Message Name** | **Sender** | **Receiver** | **Constraints** |
| 1 | 777528000.jpg [RequestStatisticsPanel()](#_efc236dd2ea780adf9da86e4bda33d5d) | -1737144090.jpg [Administrator : Actor](#_c4280548e47eb8c8450e2bdf2f5be3cb) | 971534706.jpg  [: Facade](#_56026087751a983d1cea38f44c3e689c) |  |
| 2 | 777528000.jpg [showStatisticPanel()](#_33fa80789a7a5b36dca892769a911e44) | 971534706.jpg  [: Facade](#_56026087751a983d1cea38f44c3e689c) | 971534706.jpg  [: Facade](#_56026087751a983d1cea38f44c3e689c) |  |
| 3 | 777528000.jpg [ShowAllStatistics()](#_2e7ebdde8bd2be33a272aab3a7aefe07) | -1737144090.jpg [Administrator : Actor](#_c4280548e47eb8c8450e2bdf2f5be3cb) | 971534706.jpg  [: Facade](#_56026087751a983d1cea38f44c3e689c) |  |
| 4 | 777528000.jpg [getAllStatistics()](#_15c27973ddd6cc02da67f2ae49ae78c5) | 971534706.jpg  [: Facade](#_56026087751a983d1cea38f44c3e689c) | 971534706.jpg  [: Server](#_e7ee2e0b856a56b3c5eed1db4e0f32e8) |  |
| 5 | 1706772953.jpg [All Statistics](#_9fc2667df92a088e8d415ff78d806c30) | 971534706.jpg  [: Server](#_e7ee2e0b856a56b3c5eed1db4e0f32e8) | 971534706.jpg  [: Facade](#_56026087751a983d1cea38f44c3e689c) |  |
| 6 | 1706772953.jpg [All Statistics](#_531e195d08c99ab7dda921ae8b9c331b) | 971534706.jpg  [: Facade](#_56026087751a983d1cea38f44c3e689c) | -1737144090.jpg [Administrator : Actor](#_c4280548e47eb8c8450e2bdf2f5be3cb) |  |
| 7 | 777528000.jpg [SelectDesirableStatistic()](#_c3608fb7efe5cd99493fe9fb5033abe7) | -1737144090.jpg [Administrator : Actor](#_c4280548e47eb8c8450e2bdf2f5be3cb) | 971534706.jpg  [: Facade](#_56026087751a983d1cea38f44c3e689c) |  |
| 8 | 777528000.jpg [SelectDesirableStatistic()](#_b19515b93a505772b685c986e13cff2f) | 971534706.jpg  [: Facade](#_56026087751a983d1cea38f44c3e689c) | 971534706.jpg  [: Facade](#_56026087751a983d1cea38f44c3e689c) |  |
| 9 | 1706772953.jpg [Desired Statistic](#_965d1f4eaa88833029ae1969f500ff5a) | 971534706.jpg  [: Facade](#_56026087751a983d1cea38f44c3e689c) | -1737144090.jpg [Administrator : Actor](#_c4280548e47eb8c8450e2bdf2f5be3cb) |  |
| 10 | 983147593.jpg [PrintStatistic()](#_d84df1701772fc4a6393f7b27f193503) | -1737144090.jpg [Administrator : Actor](#_c4280548e47eb8c8450e2bdf2f5be3cb) | 971534706.jpg  [: Facade](#_56026087751a983d1cea38f44c3e689c) |  |

## Messages

### All Statistics

|  |  |
| --- | --- |
| **Message Sort** | reply |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Server](#_e7ee2e0b856a56b3c5eed1db4e0f32e8) |
| **Receiver** | 971534706.jpg  [: Facade](#_56026087751a983d1cea38f44c3e689c) |
| **Constraint** |  |

### All Statistics

|  |  |
| --- | --- |
| **Message Sort** | reply |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_56026087751a983d1cea38f44c3e689c) |
| **Receiver** | -1737144090.jpg [Administrator : Actor](#_c4280548e47eb8c8450e2bdf2f5be3cb) |
| **Constraint** |  |

### Desired Statistic

|  |  |
| --- | --- |
| **Message Sort** | reply |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_56026087751a983d1cea38f44c3e689c) |
| **Receiver** | -1737144090.jpg [Administrator : Actor](#_c4280548e47eb8c8450e2bdf2f5be3cb) |
| **Constraint** |  |

### getAllStatistics()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_56026087751a983d1cea38f44c3e689c) |
| **Receiver** | 971534706.jpg  [: Server](#_e7ee2e0b856a56b3c5eed1db4e0f32e8) |
| **Constraint** |  |

### PrintStatistic()

|  |  |
| --- | --- |
| **Message Sort** | asynchSignal |
| **Parameters** |  |
| **Sender** | -1737144090.jpg [Administrator : Actor](#_c4280548e47eb8c8450e2bdf2f5be3cb) |
| **Receiver** | 971534706.jpg  [: Facade](#_56026087751a983d1cea38f44c3e689c) |
| **Constraint** |  |

### RequestStatisticsPanel()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | -1737144090.jpg [Administrator : Actor](#_c4280548e47eb8c8450e2bdf2f5be3cb) |
| **Receiver** | 971534706.jpg  [: Facade](#_56026087751a983d1cea38f44c3e689c) |
| **Constraint** |  |

### SelectDesirableStatistic()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_56026087751a983d1cea38f44c3e689c) |
| **Receiver** | 971534706.jpg  [: Facade](#_56026087751a983d1cea38f44c3e689c) |
| **Constraint** |  |

### SelectDesirableStatistic()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | -1737144090.jpg [Administrator : Actor](#_c4280548e47eb8c8450e2bdf2f5be3cb) |
| **Receiver** | 971534706.jpg  [: Facade](#_56026087751a983d1cea38f44c3e689c) |
| **Constraint** |  |

### ShowAllStatistics()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | -1737144090.jpg [Administrator : Actor](#_c4280548e47eb8c8450e2bdf2f5be3cb) |
| **Receiver** | 971534706.jpg  [: Facade](#_56026087751a983d1cea38f44c3e689c) |
| **Constraint** |  |

### showStatisticPanel()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_56026087751a983d1cea38f44c3e689c) |
| **Receiver** | 971534706.jpg  [: Facade](#_56026087751a983d1cea38f44c3e689c) |
| **Constraint** |  |

## Lifeline

### : Facade

### : Server

# See current position on map

## Message Summary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Message Name** | **Sender** | **Receiver** | **Constraints** |
| 1 | 777528000.jpg [getMapWithPosition()](#_6b345885d13b03a5486b36ad45e363ea) | -1737144090.jpg  [: User](#_aa9f8b8d24aa1346a520d4585d6fdc2e) | 971534706.jpg [application : Facade](#_93da1cd61be363478ca07da52e7c3d5f) |  |
| 2 | 777528000.jpg [getMapWithPosition()](#_b168226254807511cf2d7cb45983d213) | 971534706.jpg [application : Facade](#_93da1cd61be363478ca07da52e7c3d5f) | 971534706.jpg  [: MapDrawer](#_c2a286695e3ff16088dba93ec891dd2d) |  |
| 3 | 777528000.jpg [getRooms\_()](#_9a79b55af94b18cfa2ed4d258934eca6) | 971534706.jpg  [: MapDrawer](#_c2a286695e3ff16088dba93ec891dd2d) | 971534706.jpg  [: Map](#_574daeba767772b04f810ef8331d7c65) |  |
| 4 | 1706772953.jpg [provideMap](#_e9484c5cf0201a7bd4a7669510f35cfd) | 971534706.jpg  [: Map](#_574daeba767772b04f810ef8331d7c65) | 971534706.jpg  [: MapDrawer](#_c2a286695e3ff16088dba93ec891dd2d) |  |
| 5 | 777528000.jpg [getPosition()](#_95ee7b32f75accbaee41d745589b765c) | 971534706.jpg  [: MapDrawer](#_c2a286695e3ff16088dba93ec891dd2d) | 971534706.jpg [application : Facade](#_93da1cd61be363478ca07da52e7c3d5f) |  |
| 6 | 777528000.jpg [getPosition()](#_5c797a53ce0b8202f70c9e4c4606a653) | 971534706.jpg [application : Facade](#_93da1cd61be363478ca07da52e7c3d5f) | -1737144090.jpg  [: User](#_aa9f8b8d24aa1346a520d4585d6fdc2e) |  |
| 7 | 1706772953.jpg [providePosition](#_0d92ca4c4079a0ca9a59adb91459147e) | -1737144090.jpg  [: User](#_aa9f8b8d24aa1346a520d4585d6fdc2e) | 971534706.jpg [application : Facade](#_93da1cd61be363478ca07da52e7c3d5f) |  |
| 8 | 1706772953.jpg [providePosition](#_ea1d31ec603a5df6c311e92d8289c180) | 971534706.jpg [application : Facade](#_93da1cd61be363478ca07da52e7c3d5f) | 971534706.jpg  [: MapDrawer](#_c2a286695e3ff16088dba93ec891dd2d) |  |
| 9 | 1706772953.jpg [provideMapWithPositon](#_e44437784199178035196c7517664042) | 971534706.jpg  [: MapDrawer](#_c2a286695e3ff16088dba93ec891dd2d) | -1737144090.jpg  [: User](#_aa9f8b8d24aa1346a520d4585d6fdc2e) |  |

## Messages

### getMapWithPosition()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | -1737144090.jpg  [: User](#_aa9f8b8d24aa1346a520d4585d6fdc2e) |
| **Receiver** | 971534706.jpg [application : Facade](#_93da1cd61be363478ca07da52e7c3d5f) |
| **Constraint** |  |

### getMapWithPosition()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg [application : Facade](#_93da1cd61be363478ca07da52e7c3d5f) |
| **Receiver** | 971534706.jpg  [: MapDrawer](#_c2a286695e3ff16088dba93ec891dd2d) |
| **Constraint** |  |

### getPosition()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: MapDrawer](#_c2a286695e3ff16088dba93ec891dd2d) |
| **Receiver** | 971534706.jpg [application : Facade](#_93da1cd61be363478ca07da52e7c3d5f) |
| **Constraint** |  |

### getPosition()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg [application : Facade](#_93da1cd61be363478ca07da52e7c3d5f) |
| **Receiver** | -1737144090.jpg  [: User](#_aa9f8b8d24aa1346a520d4585d6fdc2e) |
| **Constraint** |  |

### getRooms\_()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: MapDrawer](#_c2a286695e3ff16088dba93ec891dd2d) |
| **Receiver** | 971534706.jpg  [: Map](#_574daeba767772b04f810ef8331d7c65) |
| **Constraint** |  |

### provideMap

|  |  |
| --- | --- |
| **Message Sort** | reply |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Map](#_574daeba767772b04f810ef8331d7c65) |
| **Receiver** | 971534706.jpg  [: MapDrawer](#_c2a286695e3ff16088dba93ec891dd2d) |
| **Constraint** |  |

### provideMapWithPositon

|  |  |
| --- | --- |
| **Message Sort** | reply |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: MapDrawer](#_c2a286695e3ff16088dba93ec891dd2d) |
| **Receiver** | -1737144090.jpg  [: User](#_aa9f8b8d24aa1346a520d4585d6fdc2e) |
| **Constraint** |  |

### providePosition

|  |  |
| --- | --- |
| **Message Sort** | reply |
| **Parameters** |  |
| **Sender** | -1737144090.jpg  [: User](#_aa9f8b8d24aa1346a520d4585d6fdc2e) |
| **Receiver** | 971534706.jpg [application : Facade](#_93da1cd61be363478ca07da52e7c3d5f) |
| **Constraint** |  |

### providePosition

|  |  |
| --- | --- |
| **Message Sort** | reply |
| **Parameters** |  |
| **Sender** | 971534706.jpg [application : Facade](#_93da1cd61be363478ca07da52e7c3d5f) |
| **Receiver** | 971534706.jpg  [: MapDrawer](#_c2a286695e3ff16088dba93ec891dd2d) |
| **Constraint** |  |

## Lifeline

### : User

### : Server

### : MapDrawer

### : Map

### application : Facade

# Change Password

## Message Summary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Message Name** | **Sender** | **Receiver** | **Constraints** |
| 1 | 777528000.jpg [changePassword()](#_fb530bd5677c1165cb1f59992d541b28) | -1737144090.jpg  [: User](#_3ca0136a94f0c46841630e60fa85b13c) | 971534706.jpg  [: Facade](#_92a82fdd839a2ed2cb72807d05d8f73e) |  |
| 2 | 777528000.jpg [modifyUser()](#_436f0d32bebdc21d2c69eac33f17e080) | 971534706.jpg  [: Facade](#_92a82fdd839a2ed2cb72807d05d8f73e) | 971534706.jpg  [: Server](#_304d9e37aa4e6714328e105596f7e8d2) |  |
| 3 | 1706772953.jpg [dataChanged](#_f8c5f3e0a7bc03fd47e1cd8fba46e479) | 971534706.jpg  [: Server](#_304d9e37aa4e6714328e105596f7e8d2) | 971534706.jpg  [: Facade](#_92a82fdd839a2ed2cb72807d05d8f73e) |  |
| 4 | 1706772953.jpg [passwordChanged](#_9a780cb9a68695b2ca77b49102d070d6) | 971534706.jpg  [: Facade](#_92a82fdd839a2ed2cb72807d05d8f73e) | -1737144090.jpg  [: User](#_3ca0136a94f0c46841630e60fa85b13c) |  |
| 5 | 1706772953.jpg [dataNotValidated](#_6cef1fd0dc303ee92043377ce5cc7005) | 971534706.jpg  [: Server](#_304d9e37aa4e6714328e105596f7e8d2) | 971534706.jpg  [: Facade](#_92a82fdd839a2ed2cb72807d05d8f73e) |  |
| 6 | 777528000.jpg [showErrorMessage()](#_a309bf2cdf69f1773a3293543736e9bf) | 971534706.jpg  [: Facade](#_92a82fdd839a2ed2cb72807d05d8f73e) | 971534706.jpg  [: Facade](#_92a82fdd839a2ed2cb72807d05d8f73e) |  |

## Messages

### changePassword()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | -1737144090.jpg  [: User](#_3ca0136a94f0c46841630e60fa85b13c) |
| **Receiver** | 971534706.jpg  [: Facade](#_92a82fdd839a2ed2cb72807d05d8f73e) |
| **Constraint** |  |

### dataChanged

|  |  |
| --- | --- |
| **Message Sort** | reply |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Server](#_304d9e37aa4e6714328e105596f7e8d2) |
| **Receiver** | 971534706.jpg  [: Facade](#_92a82fdd839a2ed2cb72807d05d8f73e) |
| **Constraint** |  |

### dataNotValidated

|  |  |
| --- | --- |
| **Message Sort** | reply |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Server](#_304d9e37aa4e6714328e105596f7e8d2) |
| **Receiver** | 971534706.jpg  [: Facade](#_92a82fdd839a2ed2cb72807d05d8f73e) |
| **Constraint** |  |

### modifyUser()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_92a82fdd839a2ed2cb72807d05d8f73e) |
| **Receiver** | 971534706.jpg  [: Server](#_304d9e37aa4e6714328e105596f7e8d2) |
| **Constraint** |  |

### passwordChanged

|  |  |
| --- | --- |
| **Message Sort** | reply |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_92a82fdd839a2ed2cb72807d05d8f73e) |
| **Receiver** | -1737144090.jpg  [: User](#_3ca0136a94f0c46841630e60fa85b13c) |
| **Constraint** |  |

### showErrorMessage()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_92a82fdd839a2ed2cb72807d05d8f73e) |
| **Receiver** | 971534706.jpg  [: Facade](#_92a82fdd839a2ed2cb72807d05d8f73e) |
| **Constraint** |  |

## Lifeline

### : User

### : Server

### : Facade

# Statistics On Screen

# Add User

## Message Summary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Message Name** | **Sender** | **Receiver** | **Constraints** |
| 1 | 777528000.jpg [newUser()](#_7b39ff9be7bda44c105dba65ef91f419) | -1737144090.jpg  [: Administrator](#_23493b89a91f925817acfaea81b7b454) | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |  |
| 2 | 777528000.jpg [addUser()](#_f13386fdbd468992ca2927a66bee5744) | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) | 971534706.jpg  [: User](#_f65923af00bc51210bfe948f181415f8) |  |
| 3 | 1706772953.jpg [FillUserData](#_bdfa4e8e1f11790497cd55f38f4d243f) | 971534706.jpg  [: User](#_f65923af00bc51210bfe948f181415f8) | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |  |
| 4 | 777528000.jpg [FillData()](#_32e767773a5cd3919533d22551a21574) | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) | 971534706.jpg  [: User](#_f65923af00bc51210bfe948f181415f8) |  |
| 5 | 1706772953.jpg [UserAdded](#_83167733bb278265fbbff8191f543a71) | 971534706.jpg  [: User](#_f65923af00bc51210bfe948f181415f8) | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |  |

## Messages

### addUser()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |
| **Receiver** | 971534706.jpg  [: User](#_f65923af00bc51210bfe948f181415f8) |
| **Constraint** |  |

### FillData()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |
| **Receiver** | 971534706.jpg  [: User](#_f65923af00bc51210bfe948f181415f8) |
| **Constraint** |  |

### FillUserData

|  |  |
| --- | --- |
| **Message Sort** | reply |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: User](#_f65923af00bc51210bfe948f181415f8) |
| **Receiver** | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |
| **Constraint** |  |

### newUser()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | -1737144090.jpg  [: Administrator](#_23493b89a91f925817acfaea81b7b454) |
| **Receiver** | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |
| **Constraint** |  |

### UserAdded

|  |  |
| --- | --- |
| **Message Sort** | reply |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: User](#_f65923af00bc51210bfe948f181415f8) |
| **Receiver** | 971534706.jpg  [: Facade](#_a534dbdfd4caf65fcc5a2dbf523c854f) |
| **Constraint** |  |

## Lifeline

### : Administrator

### : User

### : Facade

# View Statistics Panel

## Message Summary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Message Name** | **Sender** | **Receiver** | **Constraints** |
| 1 | 777528000.jpg [RequestStatisticsPanel()](#_6b0b75142b332b0ba18a4b6ed7ece3f3) | -1737144090.jpg [Administrator : Actor](#_c4280548e47eb8c8450e2bdf2f5be3cb) | 971534706.jpg  [: Facade](#_ae6a0c8c4c303f7173218445d40e3164) |  |
| 2 | 777528000.jpg [showStatisticPanel()](#_932a9c607c323b80ecc7dc291fce41a5) | 971534706.jpg  [: Facade](#_ae6a0c8c4c303f7173218445d40e3164) | 971534706.jpg  [: Facade](#_ae6a0c8c4c303f7173218445d40e3164) |  |
| 3 | 983147593.jpg [SelectDesirableStatistic()](#_bdceedd2ee6cad7e84282350c5d3d62c) | -1737144090.jpg [Administrator : Actor](#_c4280548e47eb8c8450e2bdf2f5be3cb) | 971534706.jpg  [: Facade](#_ae6a0c8c4c303f7173218445d40e3164) |  |
| 4 | 983147593.jpg [GetAllStatistics()](#_99096df764453083fa74787c38931b98) | 971534706.jpg  [: Facade](#_ae6a0c8c4c303f7173218445d40e3164) | 971534706.jpg  [: Server](#_886ce7dc6578f93cb36c86f8cbaf05ee) |  |
| 5 | 1706772953.jpg [All Statistics](#_4111a330b0124e11ca714f518d6b52c5) | 971534706.jpg  [: Server](#_886ce7dc6578f93cb36c86f8cbaf05ee) | 971534706.jpg  [: Facade](#_ae6a0c8c4c303f7173218445d40e3164) |  |
| 6 | 777528000.jpg [SelectDesirableStatistic](#_e552fece632ddc13a7e9fb23d5b667ec) | 971534706.jpg  [: Facade](#_ae6a0c8c4c303f7173218445d40e3164) | 971534706.jpg  [: Facade](#_ae6a0c8c4c303f7173218445d40e3164) |  |
| 7 | 1706772953.jpg [Desired Statistic](#_b05063d4bdc712a19c9402a8655e0089) | 971534706.jpg  [: Facade](#_ae6a0c8c4c303f7173218445d40e3164) | -1737144090.jpg [Administrator : Actor](#_c4280548e47eb8c8450e2bdf2f5be3cb) |  |

## Messages

### All Statistics

|  |  |
| --- | --- |
| **Message Sort** | reply |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Server](#_886ce7dc6578f93cb36c86f8cbaf05ee) |
| **Receiver** | 971534706.jpg  [: Facade](#_ae6a0c8c4c303f7173218445d40e3164) |
| **Constraint** |  |

### Desired Statistic

|  |  |
| --- | --- |
| **Message Sort** | reply |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_ae6a0c8c4c303f7173218445d40e3164) |
| **Receiver** | -1737144090.jpg [Administrator : Actor](#_c4280548e47eb8c8450e2bdf2f5be3cb) |
| **Constraint** |  |

### GetAllStatistics()

|  |  |
| --- | --- |
| **Message Sort** | asynchSignal |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_ae6a0c8c4c303f7173218445d40e3164) |
| **Receiver** | 971534706.jpg  [: Server](#_886ce7dc6578f93cb36c86f8cbaf05ee) |
| **Constraint** |  |

### RequestStatisticsPanel()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | -1737144090.jpg [Administrator : Actor](#_c4280548e47eb8c8450e2bdf2f5be3cb) |
| **Receiver** | 971534706.jpg  [: Facade](#_ae6a0c8c4c303f7173218445d40e3164) |
| **Constraint** |  |

### SelectDesirableStatistic

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_ae6a0c8c4c303f7173218445d40e3164) |
| **Receiver** | 971534706.jpg  [: Facade](#_ae6a0c8c4c303f7173218445d40e3164) |
| **Constraint** |  |

### SelectDesirableStatistic()

|  |  |
| --- | --- |
| **Message Sort** | asynchSignal |
| **Parameters** |  |
| **Sender** | -1737144090.jpg [Administrator : Actor](#_c4280548e47eb8c8450e2bdf2f5be3cb) |
| **Receiver** | 971534706.jpg  [: Facade](#_ae6a0c8c4c303f7173218445d40e3164) |
| **Constraint** |  |

### showStatisticPanel()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_ae6a0c8c4c303f7173218445d40e3164) |
| **Receiver** | 971534706.jpg  [: Facade](#_ae6a0c8c4c303f7173218445d40e3164) |
| **Constraint** |  |

## Lifeline

### : Facade

### : Server

# Logout

## Message Summary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Message Name** | **Sender** | **Receiver** | **Constraints** |
| 1 | 777528000.jpg [Logout()](#_a6a2022b9b226e95ff050e5c56efa8f5) | -1737144090.jpg  [: User](#_5dab4a841e5f00bd3675d6ac610eb6c3) | 971534706.jpg  [: Facade](#_ab608c19f8da146cbf7eb042ede63438) |  |
| 2 | 983147593.jpg [userRequestLogOut()](#_7475e34e0f7ba8b336a77ba6989587e3) | 971534706.jpg  [: Facade](#_ab608c19f8da146cbf7eb042ede63438) | 971534706.jpg  [: Server](#_b389f2e03bc5c2a00e539c48a3505cac) |  |
| 3 | 1706772953.jpg [Chosen User](#_8dda80ee68ade1bc60e0172caa919bff) | 971534706.jpg  [: Server](#_b389f2e03bc5c2a00e539c48a3505cac) | 971534706.jpg  [: Facade](#_ab608c19f8da146cbf7eb042ede63438) |  |
| 4 | 777528000.jpg [logOut()](#_e70631eb092cd6b233ab4f9ab0ef37c3) | 971534706.jpg  [: Facade](#_ab608c19f8da146cbf7eb042ede63438) | 971534706.jpg  [: Facade](#_ab608c19f8da146cbf7eb042ede63438) |  |
| 5 | 1706772953.jpg [User Logged Out](#_6686f4dfecb64efc8ed51dbe021a2a6a) | 971534706.jpg  [: Facade](#_ab608c19f8da146cbf7eb042ede63438) | -1737144090.jpg  [: User](#_5dab4a841e5f00bd3675d6ac610eb6c3) |  |

## Messages

### Chosen User

|  |  |
| --- | --- |
| **Message Sort** | reply |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Server](#_b389f2e03bc5c2a00e539c48a3505cac) |
| **Receiver** | 971534706.jpg  [: Facade](#_ab608c19f8da146cbf7eb042ede63438) |
| **Constraint** |  |

### Logout()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | -1737144090.jpg  [: User](#_5dab4a841e5f00bd3675d6ac610eb6c3) |
| **Receiver** | 971534706.jpg  [: Facade](#_ab608c19f8da146cbf7eb042ede63438) |
| **Constraint** |  |

### logOut()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_ab608c19f8da146cbf7eb042ede63438) |
| **Receiver** | 971534706.jpg  [: Facade](#_ab608c19f8da146cbf7eb042ede63438) |
| **Constraint** |  |

### User Logged Out

|  |  |
| --- | --- |
| **Message Sort** | reply |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_ab608c19f8da146cbf7eb042ede63438) |
| **Receiver** | -1737144090.jpg  [: User](#_5dab4a841e5f00bd3675d6ac610eb6c3) |
| **Constraint** |  |

### userRequestLogOut()

|  |  |
| --- | --- |
| **Message Sort** | asynchSignal |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_ab608c19f8da146cbf7eb042ede63438) |
| **Receiver** | 971534706.jpg  [: Server](#_b389f2e03bc5c2a00e539c48a3505cac) |
| **Constraint** |  |

## Lifeline

### : User

### : Facade

### : Server

# Get route to Escape

## Message Summary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Message Name** | **Sender** | **Receiver** | **Constraints** |
| 1 | 777528000.jpg [getRoute()](#_5e876105d756bd8ba6931ab716d4bef6) | -1737144090.jpg  [: User](#_a78dcda6e30b8e8cfba30c125b5aa287) | 971534706.jpg  [: Facade](#_73f995c0cf3a49e19cb2dc0d57521f56) |  |
| 2 | 777528000.jpg [getMap()](#_6c8c0ae0edda12d65204e203e39f5a0f) | 971534706.jpg  [: Facade](#_73f995c0cf3a49e19cb2dc0d57521f56) | 971534706.jpg  [: Space](#_962690200b1e3a796e1a6cf979e4094c) |  |
| 3 | 777528000.jpg [getMap()](#_b2fcb201f5f3ea88c60865989e742c59) | 971534706.jpg  [: Space](#_962690200b1e3a796e1a6cf979e4094c) | 971534706.jpg  [: Map](#_fcf24b0965be5bbe93335da6864a3165) |  |
| 4 | 777528000.jpg [servesMap()](#_0ac6ac91fd644b706440f22d37fd18de) | 971534706.jpg  [: Map](#_fcf24b0965be5bbe93335da6864a3165) | 971534706.jpg  [: Space](#_962690200b1e3a796e1a6cf979e4094c) |  |
| 5 | 777528000.jpg [providesMap()](#_bc0fca96e541d2c50f0ee3cd8a2d1093) | 971534706.jpg  [: Space](#_962690200b1e3a796e1a6cf979e4094c) | 971534706.jpg  [: RouteComputer](#_662187642c7584321c99c026ff0dce75) |  |
| 6 | 777528000.jpg [createRoute()](#_ceb52c4282a2b78be6bc09c57a3e8dae) | 971534706.jpg  [: RouteComputer](#_662187642c7584321c99c026ff0dce75) | 971534706.jpg  [: RouteComputer](#_662187642c7584321c99c026ff0dce75) |  |
| 7 | 777528000.jpg [providesRoute()](#_bb339750649fce41df7bbd19bd0e5bf8) | 971534706.jpg  [: RouteComputer](#_662187642c7584321c99c026ff0dce75) | 971534706.jpg  [: Facade](#_73f995c0cf3a49e19cb2dc0d57521f56) |  |
| 8 | 777528000.jpg [providesRoute()](#_7a6c33ca51d42e56f428f18c23c3a270) | 971534706.jpg  [: Facade](#_73f995c0cf3a49e19cb2dc0d57521f56) | -1737144090.jpg  [: User](#_a78dcda6e30b8e8cfba30c125b5aa287) |  |
| 9 | 777528000.jpg [getRoute()](#_afec6ba01fa66c00cc33a827f962169b) | -1737144090.jpg  [: User](#_a78dcda6e30b8e8cfba30c125b5aa287) | 971534706.jpg  [: Facade](#_73f995c0cf3a49e19cb2dc0d57521f56) |  |
| 10 | 777528000.jpg [updateRoute()](#_63e7d523ae3c7fc8a61c32615be522a6) | 971534706.jpg  [: Facade](#_73f995c0cf3a49e19cb2dc0d57521f56) | 971534706.jpg  [: RouteComputer](#_662187642c7584321c99c026ff0dce75) |  |
| 11 | 777528000.jpg [createRoute()](#_bd6df1c9e24af478ef3023c587d9a2c4) | 971534706.jpg  [: RouteComputer](#_662187642c7584321c99c026ff0dce75) | 971534706.jpg  [: RouteComputer](#_662187642c7584321c99c026ff0dce75) |  |
| 12 | 777528000.jpg [providesRoute()](#_e674d2342f230e722797e3fa32238445) | 971534706.jpg  [: RouteComputer](#_662187642c7584321c99c026ff0dce75) | 971534706.jpg  [: Facade](#_73f995c0cf3a49e19cb2dc0d57521f56) |  |
| 13 | 777528000.jpg [providesRoute()](#_b950e699f21474c714fea41ebc0e4512) | 971534706.jpg  [: Facade](#_73f995c0cf3a49e19cb2dc0d57521f56) | -1737144090.jpg  [: User](#_a78dcda6e30b8e8cfba30c125b5aa287) |  |

## Messages

### createRoute()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: RouteComputer](#_662187642c7584321c99c026ff0dce75) |
| **Receiver** | 971534706.jpg  [: RouteComputer](#_662187642c7584321c99c026ff0dce75) |
| **Constraint** |  |

### createRoute()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: RouteComputer](#_662187642c7584321c99c026ff0dce75) |
| **Receiver** | 971534706.jpg  [: RouteComputer](#_662187642c7584321c99c026ff0dce75) |
| **Constraint** |  |

### getMap()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_73f995c0cf3a49e19cb2dc0d57521f56) |
| **Receiver** | 971534706.jpg  [: Space](#_962690200b1e3a796e1a6cf979e4094c) |
| **Constraint** |  |

### getMap()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Space](#_962690200b1e3a796e1a6cf979e4094c) |
| **Receiver** | 971534706.jpg  [: Map](#_fcf24b0965be5bbe93335da6864a3165) |
| **Constraint** |  |

### getRoute()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | -1737144090.jpg  [: User](#_a78dcda6e30b8e8cfba30c125b5aa287) |
| **Receiver** | 971534706.jpg  [: Facade](#_73f995c0cf3a49e19cb2dc0d57521f56) |
| **Constraint** |  |

### getRoute()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | -1737144090.jpg  [: User](#_a78dcda6e30b8e8cfba30c125b5aa287) |
| **Receiver** | 971534706.jpg  [: Facade](#_73f995c0cf3a49e19cb2dc0d57521f56) |
| **Constraint** |  |

### providesMap()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Space](#_962690200b1e3a796e1a6cf979e4094c) |
| **Receiver** | 971534706.jpg  [: RouteComputer](#_662187642c7584321c99c026ff0dce75) |
| **Constraint** |  |

### providesRoute()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: RouteComputer](#_662187642c7584321c99c026ff0dce75) |
| **Receiver** | 971534706.jpg  [: Facade](#_73f995c0cf3a49e19cb2dc0d57521f56) |
| **Constraint** |  |

### providesRoute()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: RouteComputer](#_662187642c7584321c99c026ff0dce75) |
| **Receiver** | 971534706.jpg  [: Facade](#_73f995c0cf3a49e19cb2dc0d57521f56) |
| **Constraint** |  |

### providesRoute()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_73f995c0cf3a49e19cb2dc0d57521f56) |
| **Receiver** | -1737144090.jpg  [: User](#_a78dcda6e30b8e8cfba30c125b5aa287) |
| **Constraint** |  |

### providesRoute()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_73f995c0cf3a49e19cb2dc0d57521f56) |
| **Receiver** | -1737144090.jpg  [: User](#_a78dcda6e30b8e8cfba30c125b5aa287) |
| **Constraint** |  |

### servesMap()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Map](#_fcf24b0965be5bbe93335da6864a3165) |
| **Receiver** | 971534706.jpg  [: Space](#_962690200b1e3a796e1a6cf979e4094c) |
| **Constraint** |  |

### updateRoute()

|  |  |
| --- | --- |
| **Message Sort** | synchCall |
| **Parameters** |  |
| **Sender** | 971534706.jpg  [: Facade](#_73f995c0cf3a49e19cb2dc0d57521f56) |
| **Receiver** | 971534706.jpg  [: RouteComputer](#_662187642c7584321c99c026ff0dce75) |
| **Constraint** |  |

## Lifeline

### : User

### : RouteComputer

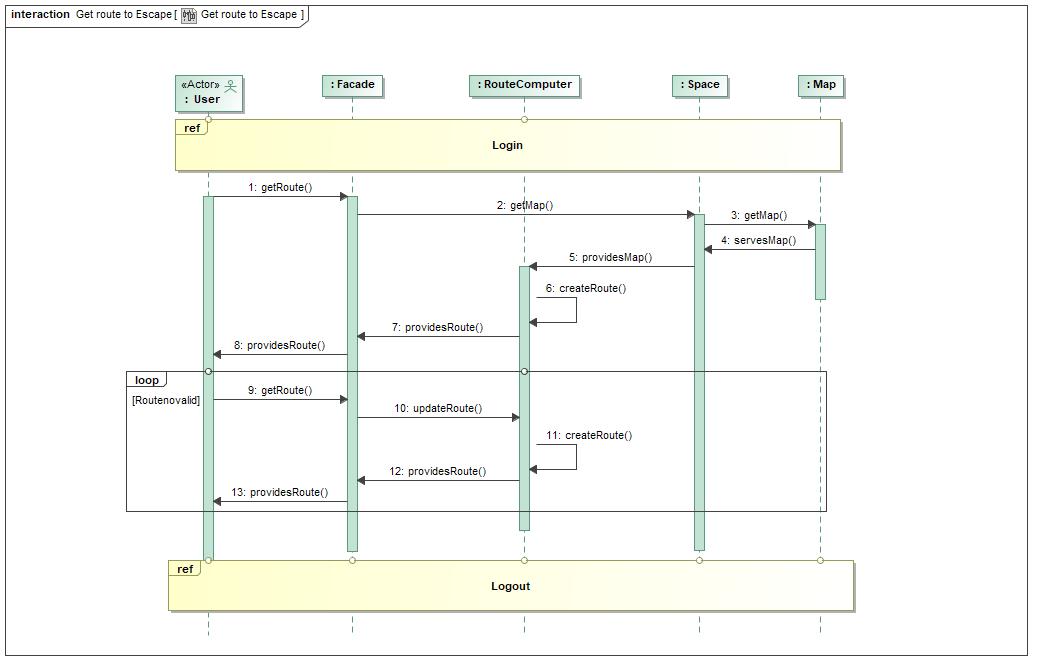
### : Space

### : Map

### : Facade

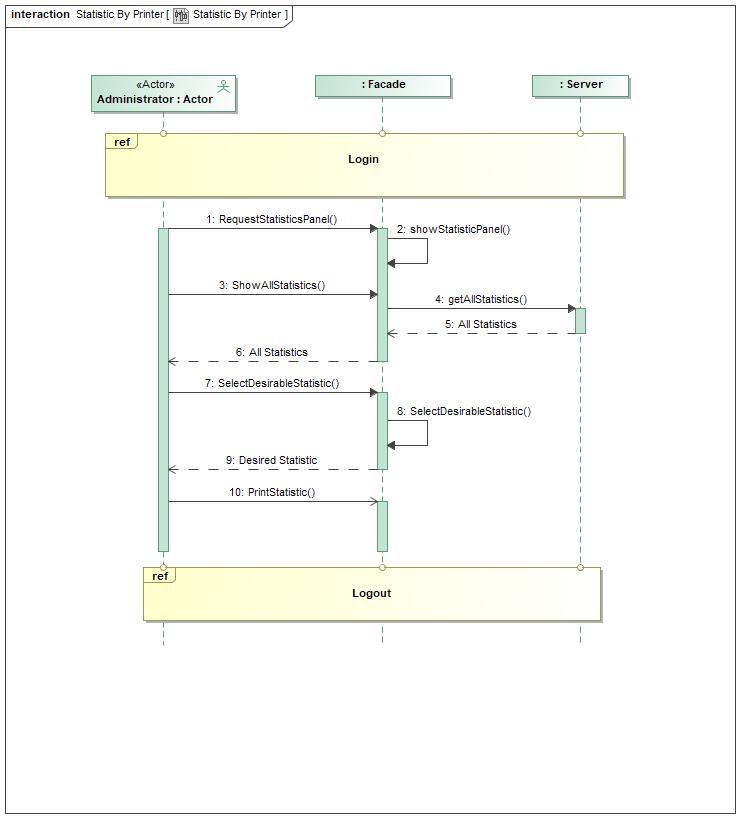
# Appendix A: Diagrams

## Get route to Escape



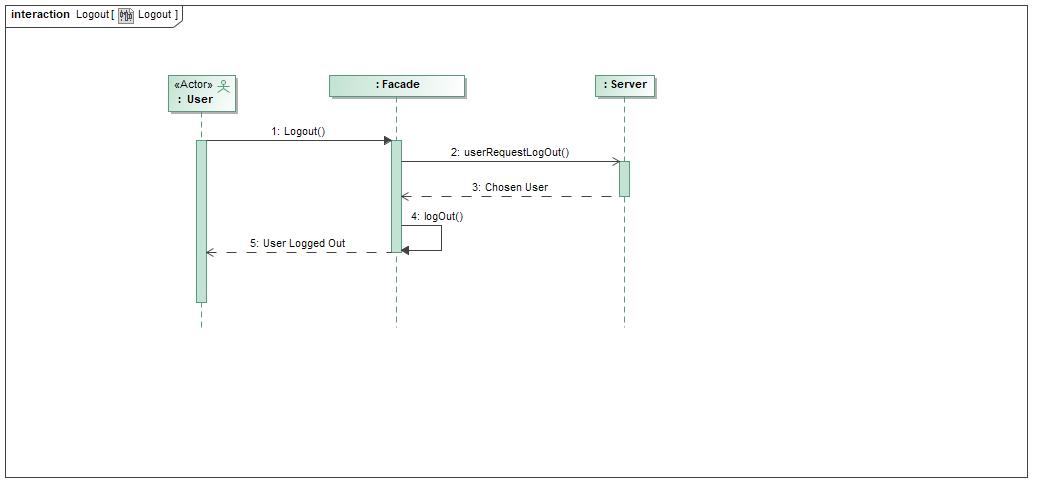
1. Get route to Escape

## Statistic By Printer



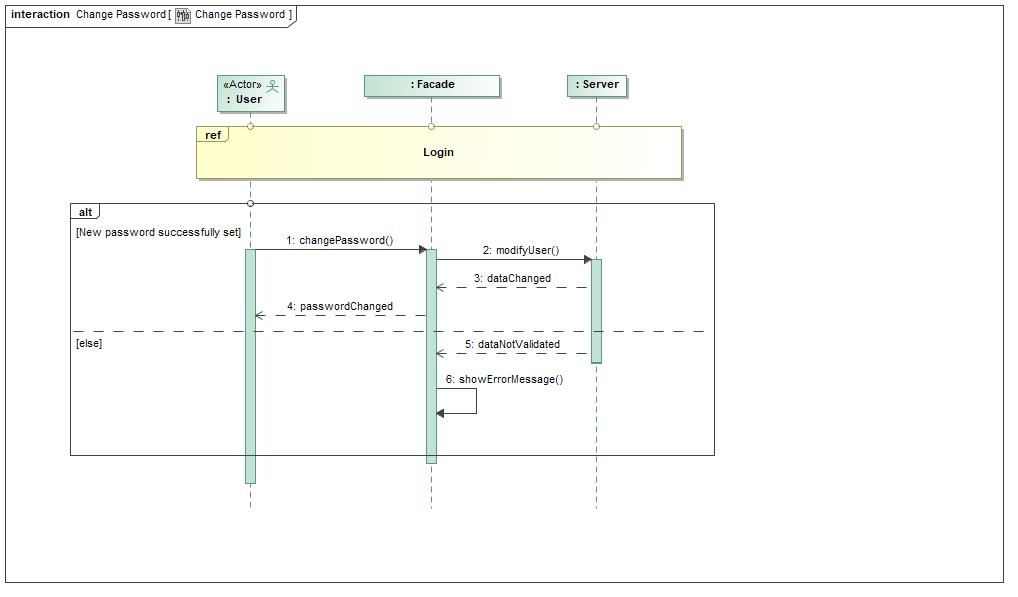
1. Statistic By Printer

## Logout



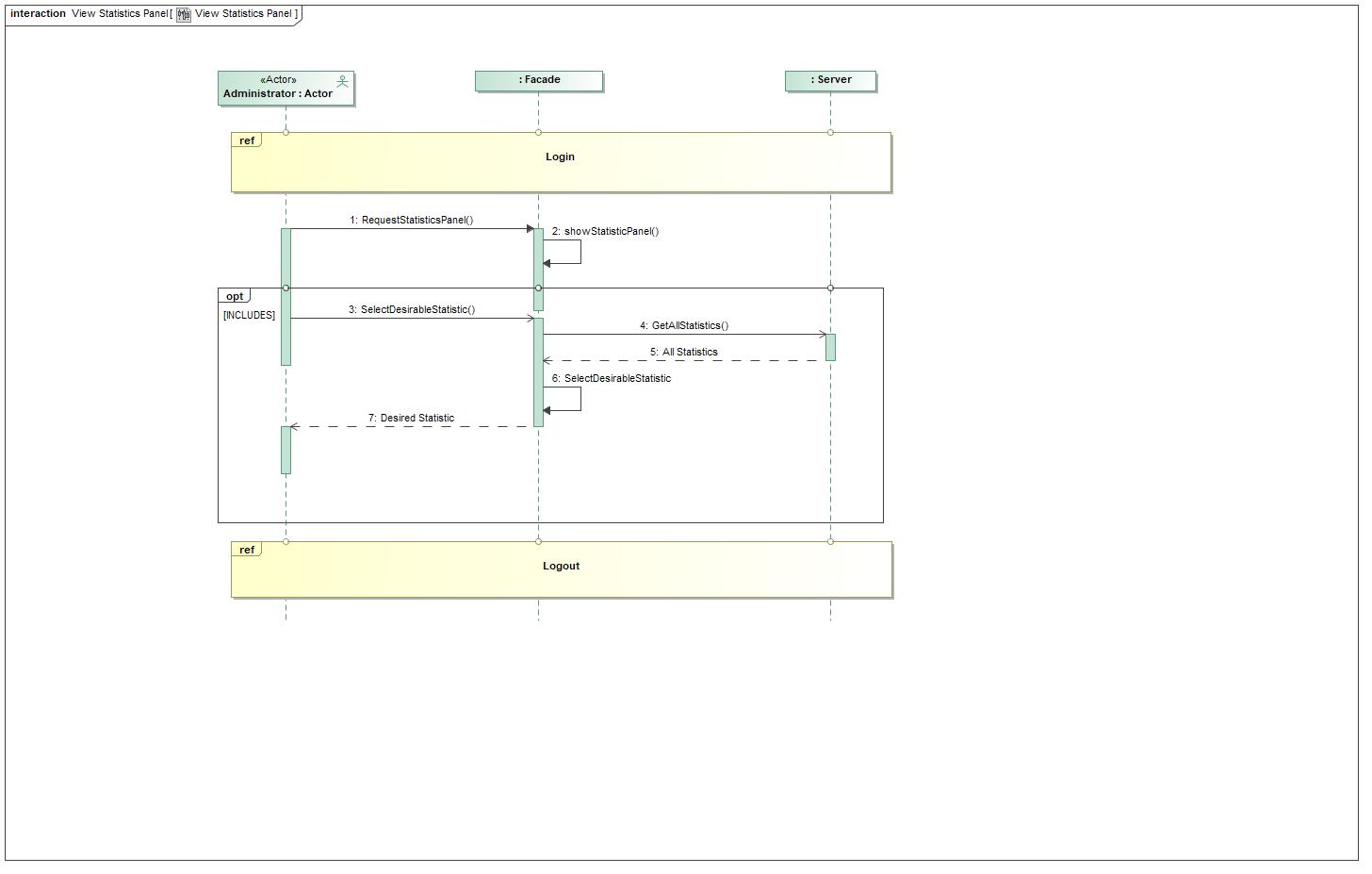
1. Logout

## Change Password



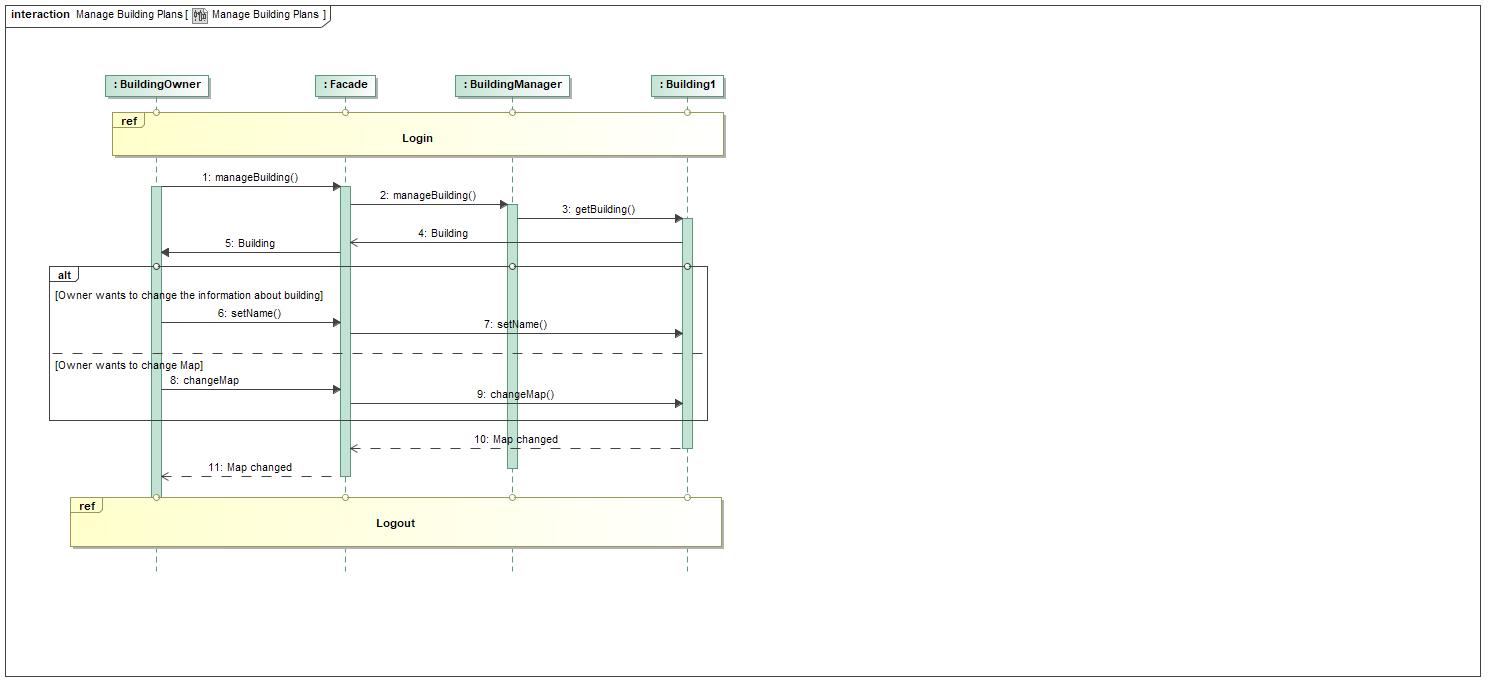
1. Change Password

## View Statistics Panel



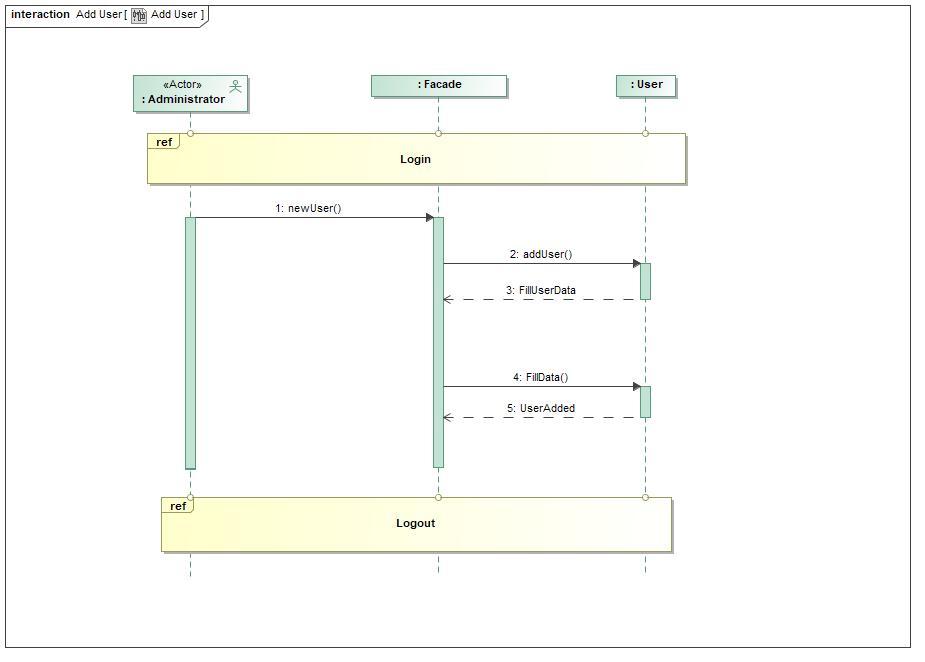
1. View Statistics Panel

## Manage Building Plans



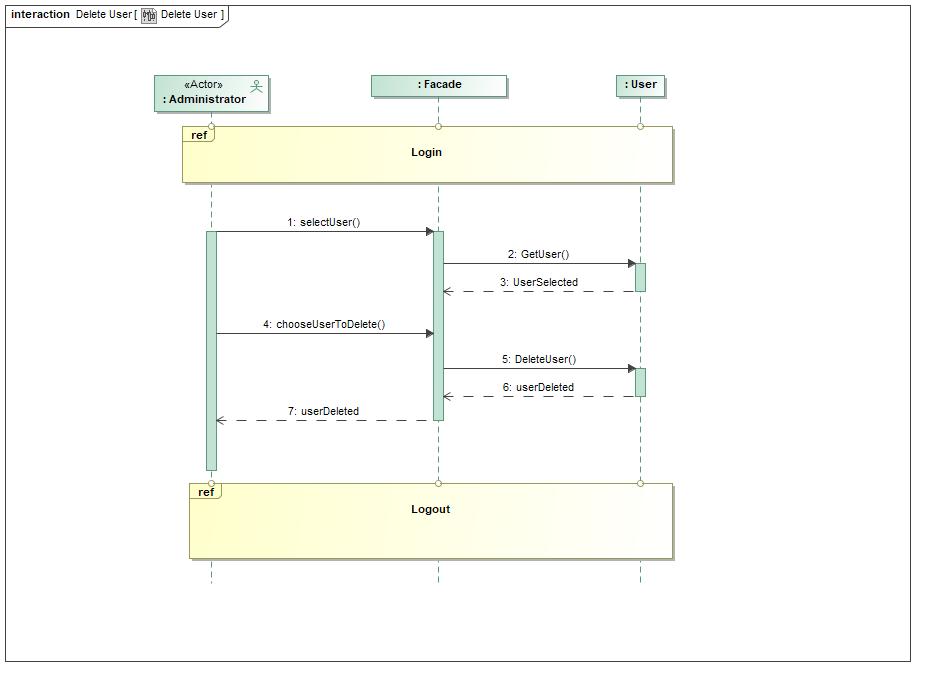
1. Manage Building Plans

## Add User



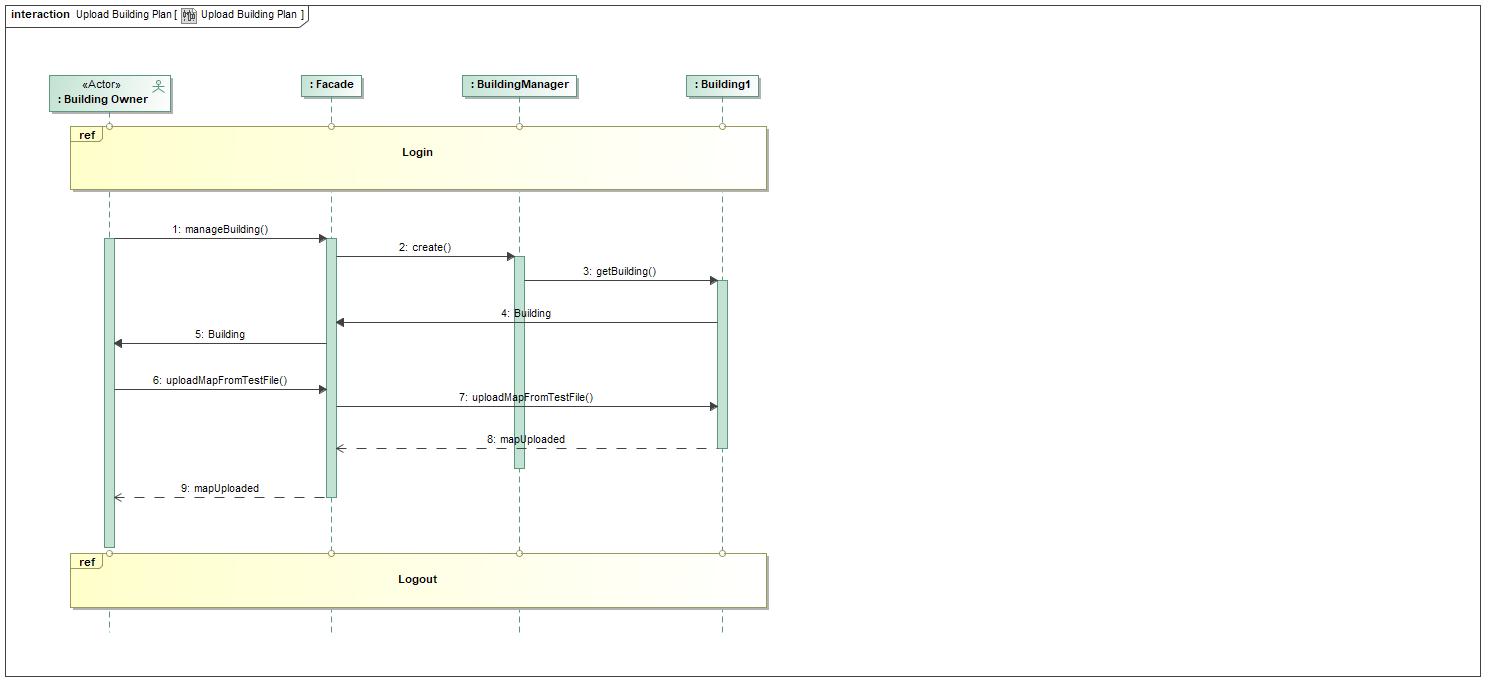
1. Add User

## Delete User



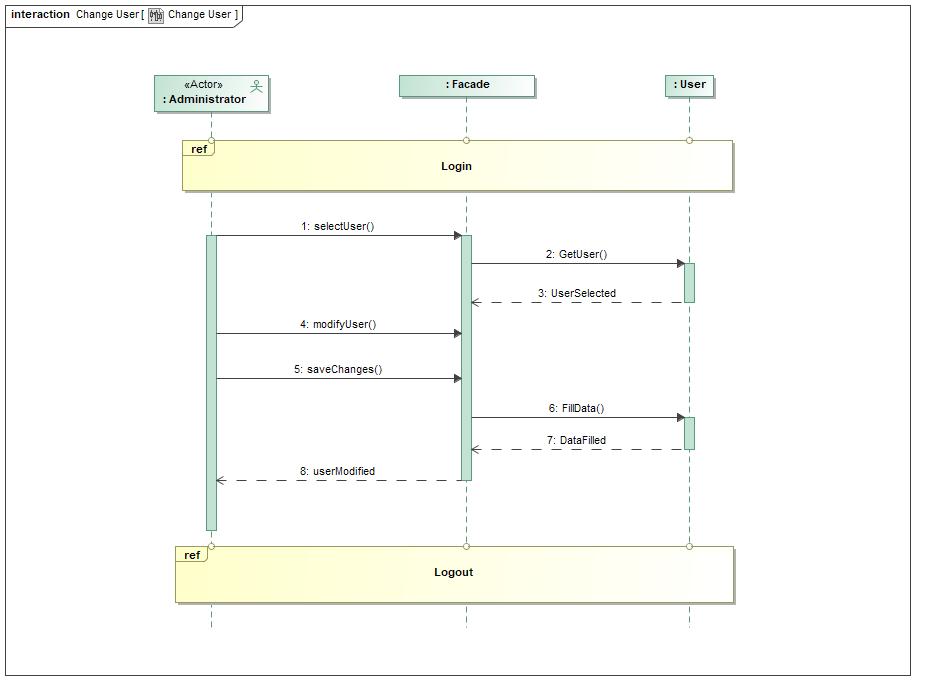
1. Delete User

## Upload Building Plan



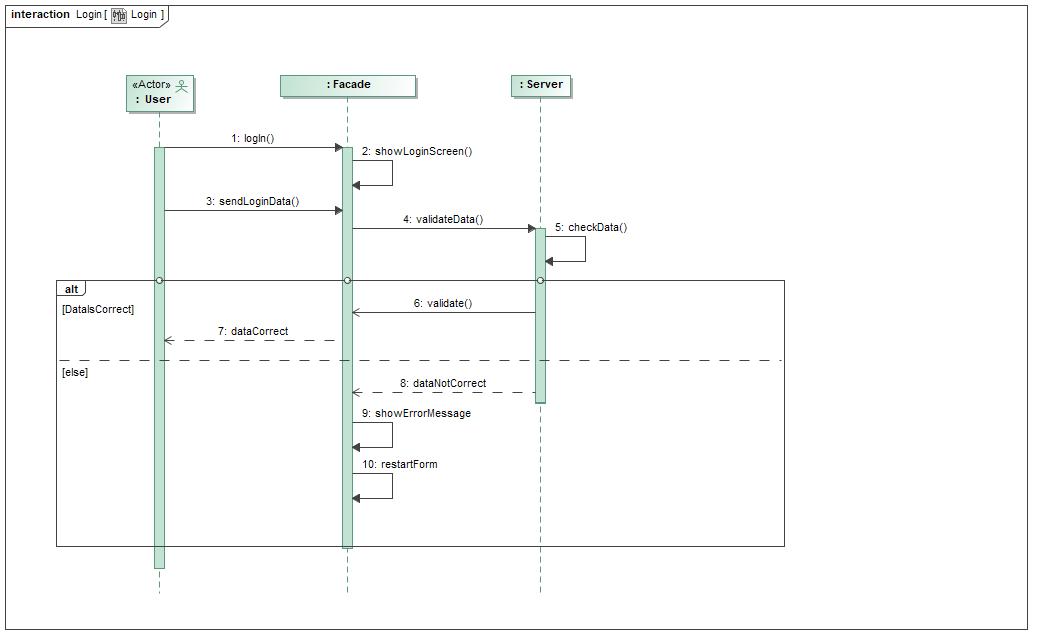
1. Upload Building Plan

## Change User



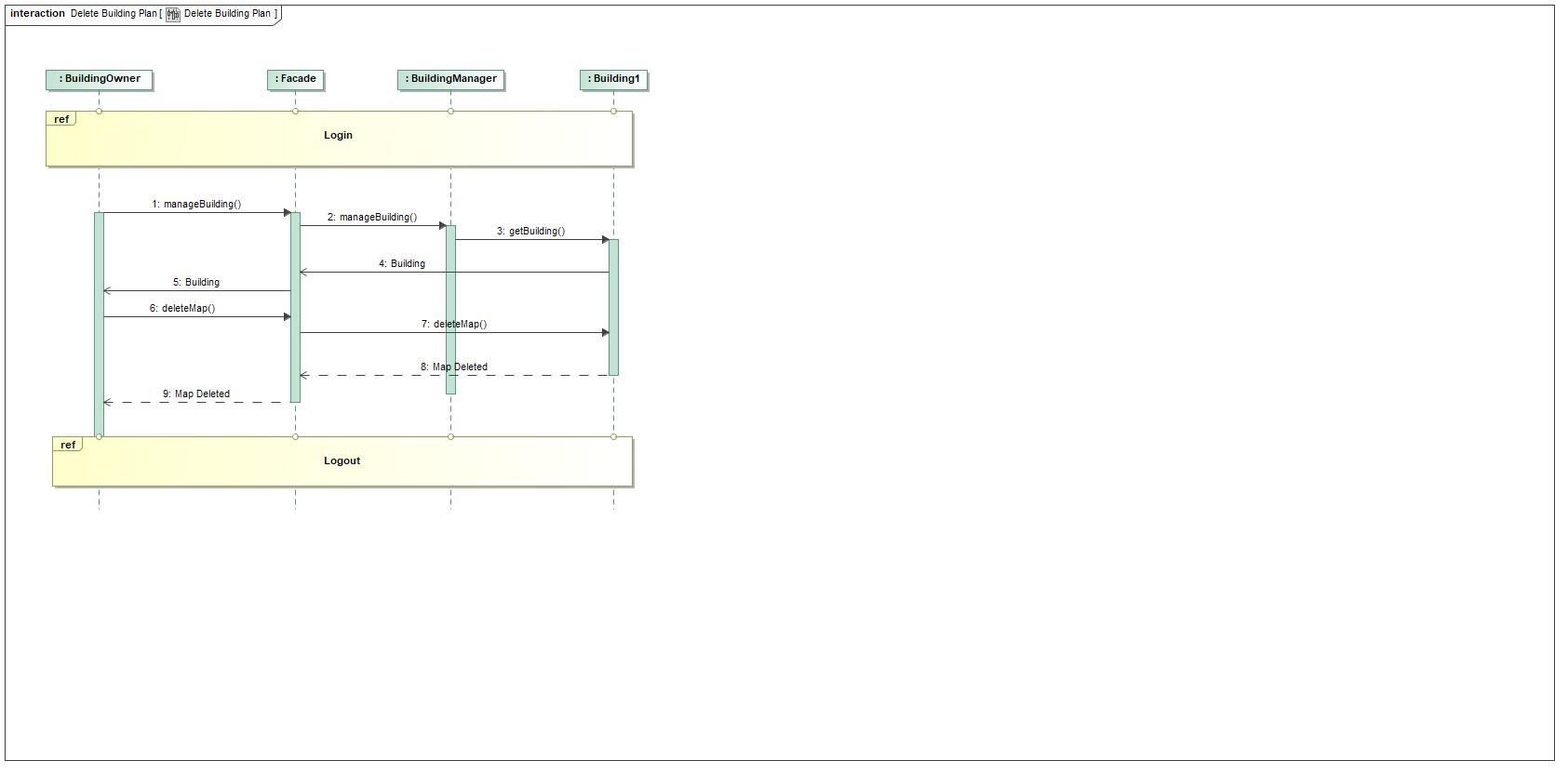
1. Change User

## Login



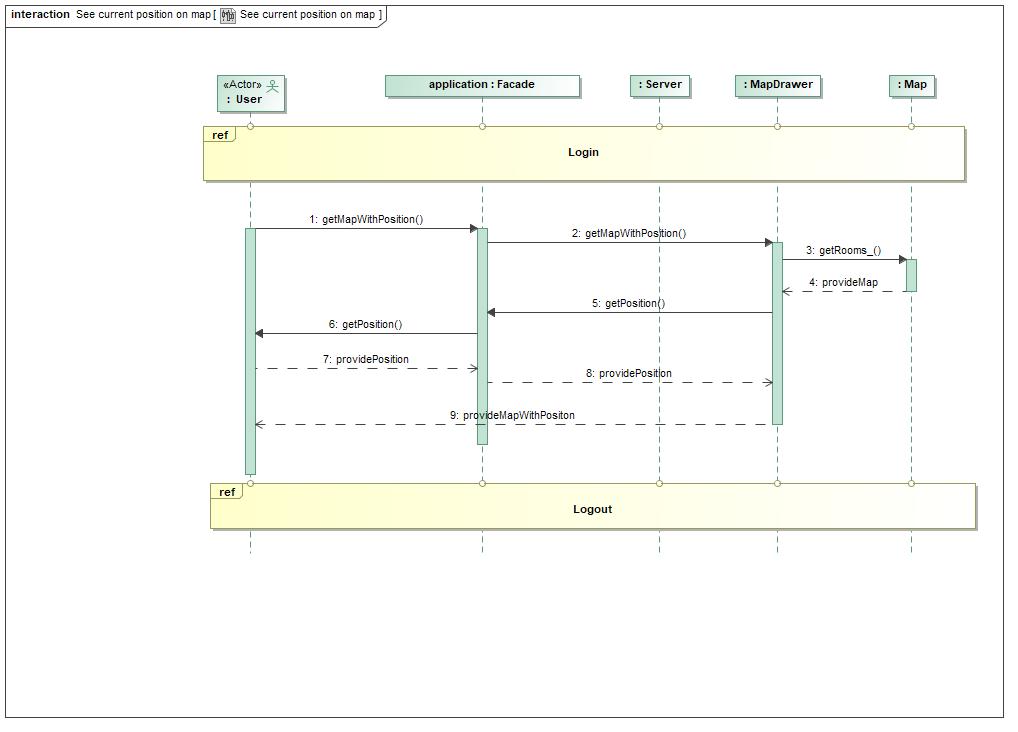
1. Login

## Delete Building Plan



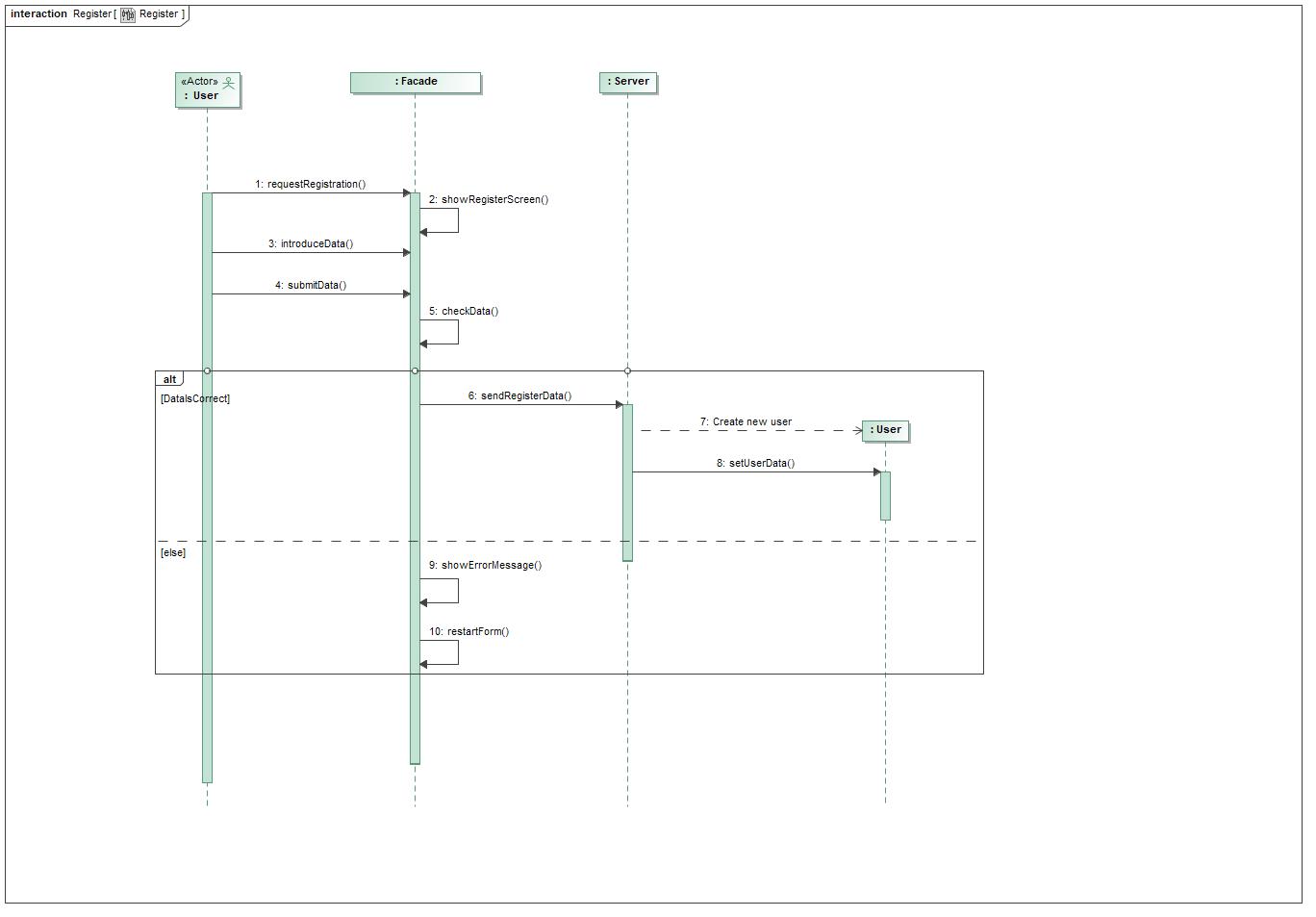
1. Delete Building Plan

## See current position on map



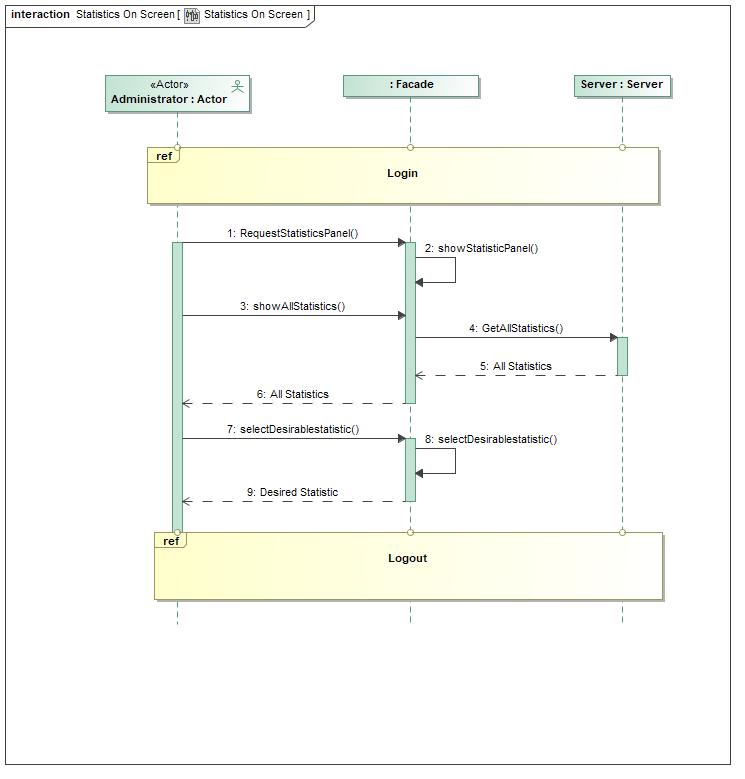
1. See current position on map

## Register



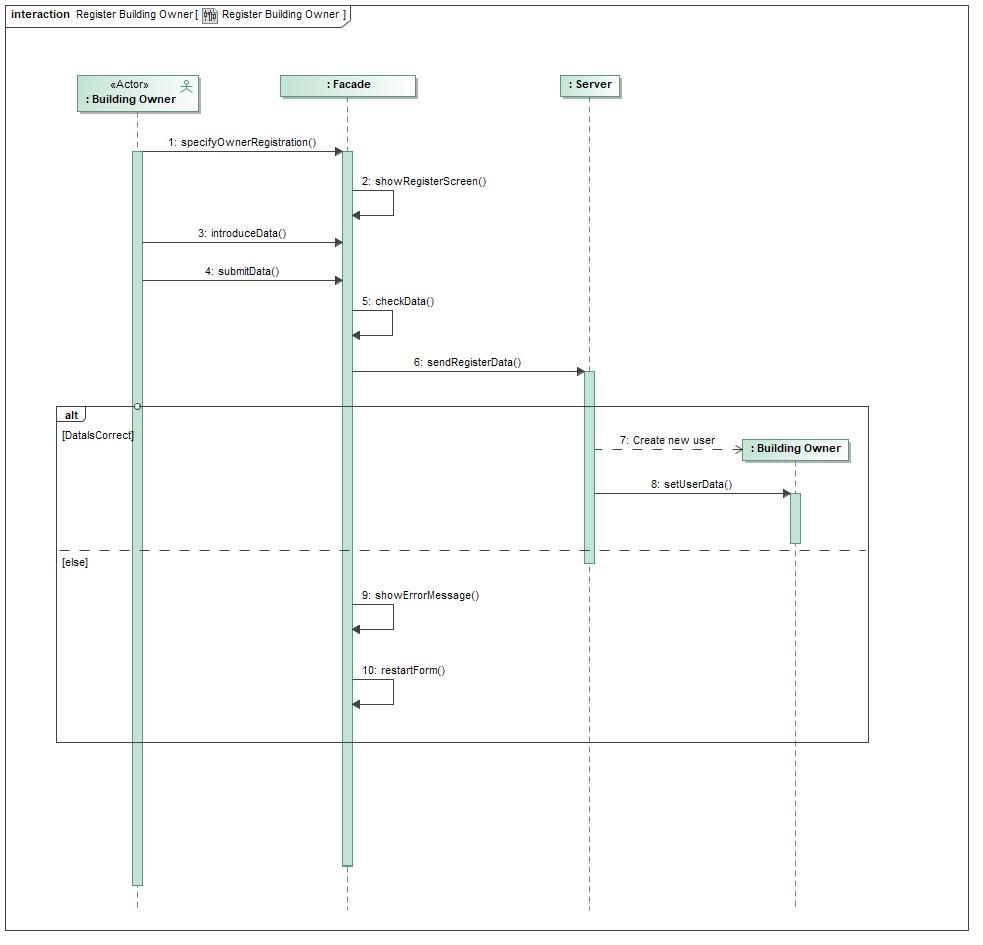
1. Register

## Statistics On Screen



1. Statistics On Screen

## Register Building Owner



1. Register Building Owner