**Operation Contract: LOGIN**

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| --- | --- |
| **Operation** | User has to enter username and password and checked if it is a valid user account and is logged in |
| **Cross Reference** | LOGIN |
| **Pre-Condition** | Enter information in text fields |
| **Post-Condition** | Logged In |

**Operation Contract: Sign Up**

|  |  |
| --- | --- |
| **Operation** | User has to enter username, password and email address for the creation of account |
| **Cross Reference** | SIGNUP |
| **Pre-Condition** | Enter information in text fields |
| **Post-Condition** | Email is verified by checking format of email and is sent a verification code and the account is created |