# Adding New User

## Preconditions

1. User is the Administrative user
2. The userid is unique (storage returns a StorageNotFoundException)
3. All parameters for the new user are known, and:
   1. The userid is 4 characters long
   2. The password is 3 characters long
   3. The first name is between 1 and 20 characters
   4. The last name is between 1 and 20 characters
   5. A phone number for the user (10 digits)
   6. A default latitude and longitude (home location)
   7. A default zoom level for this user

## Process

1. A new User object is created
2. The Admin is prompted for the userid
3. The userid is checked for uniqueness
4. The Admin is prompted for user parameters (see preconditions), which are checked against the known constraints.
5. The User object is saved to the Storage.

## Postconditions

1. The newly created User object exists in memory
2. The User information has been saved using Storage

# Alternate Scenario

## Preconditions

1. User is the Administrative user
2. The userid is not unique

## Process

1. A new User object is created
2. The Admin is prompted for the userid
3. The userid is checked for uniqueness and is found to be not unique
4. A label is set informing the Admin of this condition
5. The “OK” or “Continue” button is disabled until all parameters are correct

## Postconditions

The administrator does not change anything until the preconditions of the first scenario are met.