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| Serializable  HousingPost | |
| - Have ownership, houseType, roomType, floor, price, availableDate, location, minimumStay, utilities, policies, user  - can store and return all the above fields |  |

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| --- | --- |
| Serializable  Utility | |
| - Have internet, laundry, heat, water, kitchen  - can store and return all the above fields | HousingPost |

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| Serializable  PostManager | |
| - has a list that stores all the posts  - can add a post to the list  - can delete a post from the list  - can return a post | HousingPost  User |

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| --- | --- |
| Serializable  User | |
| - has a list that stores interested posts, has a list stores posted posts  - has username, password, email  - can return the list of interested posts and posted posts  - can change username and password  - can add a post to interested  - can remove a post from interested  - can create a post  - can delete a post he/she posted | HousingPost  UserManager  PostManager |

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| --- | --- |
| Serializable  UserManager | |
| - has a list that stores all the users  - can add a user to the list  - can return a user from the list using email | User |

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| Driver | |
| - can search a post according to house type, room type, available data, price range, location, utilities, policy  - can display the searched post in a table  - can display the searched post on a map  - can add a user to the userManager  - can add a post to the postManager | UserManager  PostManager |

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| --- | --- |
| UserPage | |
| - can display Username and email  - can display the list of interested and posted posts | User |