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| **Test Plan - Person** | | |
| **ID** | **Method** | **Test Description** |
| 100A | \_\_init\_\_ | Validate all parameters  => Create a Person object |
| 100B | \_\_init\_\_ | Set out of range of parameters’ values and Set invalid type |
| 110 | Is\_released | Test to get a status of released attribute |
| 120 | get\_address | Check value of address attribute |
| 130 | get\_id | Check value of id attribute |
| 140 | get\_firstName | Get the value of firstname attribute of a person object |
| 150 | get\_lastName | Get the value of lastname attribute of a person object |
| 160 | get\_day\_of\_birth | Get the value of day\_of\_birth attribute of a person object |
| 170 | get\_type | Get a raising error since this is an abstract method |
| 180 | get\_description | Get a raising error since this is an abstract method |
| 190 | to\_dict | Get a raising error since this is an abstract method |

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| **Test Plan - Patient** | | |
| **ID** | **Method** | **Test Description** |
| 100A | \_\_init\_\_ | Validate all parameters  => Create a Patient object |
| 100B | \_\_init\_\_ | Set out of range of parameters’ values and invalid attributes |
| 110 | Is\_released | Test to get a status of released attribute |
| 120 | Bill | Test to get the value of bill attribute |
| 130 | Set\_bill | Test to set the value of bill attribute |
| 140 | get\_type | Get type Patient of the object Patient |
| 150 | get\_description | Test if a description of a released patient will be returned |
| 160 | get\_room\_num | Test if the room number of a patient will be returned |
| 170 | to\_dict | Test to get the dictionary as json format |

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| **Test Plan - Doctor** | | |
| **ID** | **Method** | **Test Description** |
| 100A | \_\_init\_\_ | Validate all parameters  => Create a Doctor object |
| 100B | \_\_init\_\_ | Set out of range of parameters’ values and invalid type |
| 110 | Is\_released | Test to get a status of released attribute |
| 120 | get\_office\_num | Test if the office number of a doctor will be returned |
| 130 | get\_income\_amount | Test if the income number of a doctor will be returned |
| 140 | get\_type | Get type Doctor of the object Doctor |
| 150 | get\_description | Get description of a doctor object |
| 160 | to\_dict | Test to get the dictionary as json format |

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| **Test Plan - Department** | | |
| **ID** | **Method** | **Test Description** |
| 100A | \_\_init\_\_ | Validate all parameters  => Create a Department object |
| 100B | \_\_init\_\_ | Set invalid type for parameters |
| 110 | add\_person | Test add a person in to a list and check the current number of people in list |
| 120 | Remove\_person | Test remove a person in a list and check the current number of people in list |
| 130 | existing\_person | Test if a function return True for a person is in a list and False for not in a list |
| 140 | get\_person\_by\_type | Test to get a person is in a list with a given type |
| 150 | get\_all\_people | Test to get all people in the list |
| 160 | get\_person\_by\_id | Test to get a person is in a list |
| 170 | get\_name | Test to get the name of the department |
| 180 | get\_statistics | Test if a description of patient information and total bill number |
| 190 | to\_dict | Test to get the dictionary as json format |
| 200 | Create\_entities | Test to check an object is created correctly and add to the department list |
| 210 | \_read\_from\_file | Test to see if a file is opened and gotten data |
| 220 | \_write\_to\_file | Test to see if a file is opened and data is written on |

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| **Test Plan – Accounting Stats** | | |
| **ID** | **Method** | **Test Description** |
| 100A | \_\_init\_\_ | Validate all parameters  => Create a AccountingStats object |
| 100B | \_\_init\_\_ | Set out of range of parameters’ values and invalid type |
| 110 | get\_released\_patient\_num | Test to get number of released patients |
| 120 | get\_not\_released\_patient\_num | Test to get number of remaining patients |
| 130 | total\_bill\_amount\_released\_patients | Test to get total bill amount of all released patients |