**Assignment 1 Rubric**

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| **Category** | **Marks** | **Remarks** |
| Correct Implementation | 5  1.25 x 4 | (See the test case below) |
| Identifying Classes | 5  (1 x 5) | Following classes have to be created:   1. Cowin/Portal or equivalent 2. Hospital 3. Citizen or equivalent 4. Vaccine 5. Slot or equivalent |
| Data Encapsulation | 5  (1 x 5) | All 5 classes mentioned above should have their parameters marked as private |
| Class Relationships | 4  (1 x 4) | * Portal should maintain a list of hospitals, citizens and vaccines. * Hospital/Portal should have a list of slots * The slot class should have an association with Vaccine: Slot should have vaccine object set either via passing to the constructor or via a member function {If Vaccine is used as a String then 0.5 marks} * Citizen should have an association with Vaccine: should not instantiate vaccine, but have a vaccine-type field.   {If Vaccine is used as a String then 0.5 marks} |
| Misc | 1  (0.5 x 2) | Each hospital and citizen object should have a unique ID (For citizen: via user input, For hospital: using static ids or random number generator) |
| Total | 20 |  |

Some Instructions:

* Go through the concepts of class relationships
* Input is given in **blue** and points to check in **red**
* A slight variation in output is fine

CoWin Portal initialized....

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**1**

Vaccine Name: **Covaxin**

Number of Doses: **2**

Gap between Doses: **3**

Vaccine Name: Covaxin, Number of Doses: 2, Gap Between Doses: 3

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**2**

Hospital Name: **AIIMS**

PinCode: **110011**

Hospital Name: AIIMS, PinCode: 110011, Unique ID: 0

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**3**

Citizen Name: **Alex**

Age: **25**

Unique ID: **123456123456**

Citizen Name: Alex, Age: 25, Unique ID: 123456123456

Your unique ID is: 123456123456

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**7**

Enter Patient ID: **123456123456**

Citizen REGISTERED **{1.25 Citizen Registered Status}**

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**4**

Enter Hospital ID: **0**

Enter number of Slots to be added: **2**

Enter Day Number: **1**

Enter Quantity: **1**

Select Vaccine

0. Covaxin

**0**

Slot added by Hospital 0 for Day: 1, Available Quantity: 1 of Vaccine Covaxin

Enter Day Number: **4**

Enter Quantity: **1**

Select Vaccine

0. Covaxin

**0**

Slot added by Hospital 0 for Day: 4, Available Quantity: 1 of Vaccine Covaxin

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**6**

Enter Hospital Id: **0**

Day: 1 Vaccine: Covaxin Available Qty: 1

Day: 4 Vaccine: Covaxin Available Qty: 1

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**5**

Enter patient Unique ID: **123456123456**

1. Search by area

2. Search by Vaccine

3. Exit

Enter option: **1**

Enter PinCode: **110011**

0 AIIMS

Enter hospital id: **0**

0-> Day: 1 Available Qty:1 Vaccine:Covaxin

1-> Day: 4 Available Qty:1 Vaccine:Covaxin**{1.25 Citizen able to get vaccinated by pincode search}**

Choose Slot: **0**

Alex vaccinated with Covaxin

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**7**

Enter Patient ID: **123456123456**

PARTIALLY VACCINATED

Vaccine Given: Covaxin

Number of Doses given: 1

Next Dose due date: 4

**{1.25 Citizen Registered Partially vaccinated along with next dose and number of doses }**

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**5**

Enter patient Unique ID: **123456123456**

1. Search by area

2. Search by Vaccine

3. Exit

Enter option: **2**

Enter Vaccine name: **Covaxin**

0 AIIMS

Enter hospital id: **0**

1-> Day: 4 Available Qty:1 Vaccine:Covaxin

Choose Slot: **1**

Alex vaccinated with Covaxin

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**7**

Enter Patient ID: **123456123456**

FULLY VACCINATED

Vaccine Given: Covaxin

Number of Doses given: 2

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**6**

Enter Hospital Id: **0**

Day: 1 Vaccine: Covaxin Available Qty: 0

Day: 4 Vaccine: Covaxin Available Qty: 0 **{1.25 Quantity decreases to 0 for both slots}**

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**8**