This is a hospital management system. This system is used by several actors (consumers) and they can do below tasks. To do These tasks, these consumers use services from some producers. See below table.

|  |  |  |
| --- | --- | --- |
| Actor (consumer) | Tasks, which actors can do | Producer, which service is taken from |
| Patient Consumer | Login | Patient Producer |
|  | See available doctors | Doctor Producer |
|  | Channel doctors | Doctor channel Producer |
|  | Request Lab tests | Lab Producer |
|  | See Lab results (unpaid labs tests) | Bill Producer |
|  | Collect medicine from pharmacy (unpaid medicines) | Bill Producer |
|  | Pay bills | Bill Producer |
| Doctor Consumer | Login | Doctor Producer |
|  | See patient channelings | Doctor channel Producer |
|  | See patient Records | Patient Producer |
|  | Create Patient Records | Patient Producer |
|  | Write prescriptions for patients | Pharmacy Producer |
| Lab Consumer | See lab requests from patients | Lab Producer |
|  | Create lab requests | Lab Producer |
|  | Login | Lab Producer |
| Pharmacy Consumer | See prescriptions | Pharmacy Producer |
|  | Ready medicines | Pharmacy Producer |
|  | Login | Lab Producer |
| Admin Consumer | Create users | User Store Producer |
|  | See users | User Store Producer |

**Producers and Consumers as a graph**

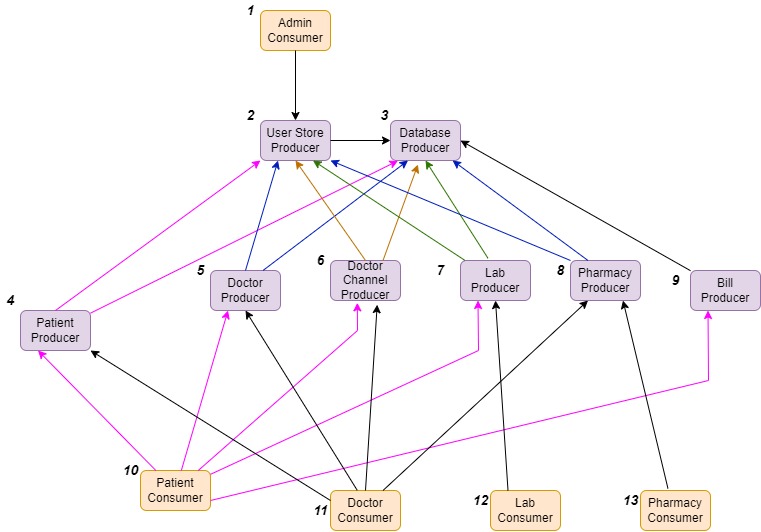
Purple color bundles – Producer bundles

Orange color bundles – Consumer bundles

NOTE: In this graph arrow tail pointed bundle uses (consumes), arrow head pointed bundle’s services. In another words, Arrow tail is pointed to consumers, and arrow head pointed to producers.

As you can see Some produces use services from other producers. So some producers act as both producers and consumers.

Eg. Patient producer (no. 4) act as a consumer when it consumes services from User store producer (no. 2). But Patient producer (no. 4) act as a producer when patient consumer (no. 10) consumes services from patient producer.



**Manifest Implementations**

1. Admin Consumer Text

   Description automatically generated
2. User Store Producer

Text

Description automatically generated

1. Database Producer

(Here jbdc driver is imported in order to establish the connection with mySql database.)

Text

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1. Patient Producer

Text

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1. Doctor Producer

Text

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1. Doctor Channel Producer

Text

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1. Lab Producer

Text

Description automatically generated

1. Pharmacy Producer

Text

Description automatically generated

1. Bill Producer

Text

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1. Patient Consumer

Text

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1. Doctor Consumer

Text

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1. Lab Consumer

Text

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1. Pharmacy Consumer

Graphical user interface, text, application

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**Screenshots**

**1.1 Admin consumer – Adding a user.**

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**1.2 Admin consumer – Listing users**

**Text

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**2.1 Patient consumer – channeling doctor**

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**2.2 Patient consumer – creating lab test requests**

**Text

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**2.3 Patient consumer – get lab reports and pay them**

**Text

Description automatically generated**

**2.4 Patient consumer – get medicines and pay them**

**Text, letter

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**3.1 Doctor consumer – See channelings**

**Text

Description automatically generated**

**3.2 Doctor consumer – create patient records**

**Text

Description automatically generated**

**3.3 Doctor consumer – see patient records**

**Text

Description automatically generated**

**3.4 Doctor consumer – write prescriptions**

**Text

Description automatically generated**

**3.5 Doctor consumer – setting availability**

**Text

Description automatically generated**

**4.1 Pharmacy consumer – see prescriptions**

**Text

Description automatically generated**

**4.2 Pharamcy consumer – ready medicine**

**Text, letter

Description automatically generated**

**5.1 Lab Consumer – see lab requests**

**Text, letter

Description automatically generated**

**5.2 Lab Consumer – creating lab results**

**Text

Description automatically generated**