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# INTRODUCTION

Informational Systems are a driving force behind the movement of automatization of business processes, due to the fact that they allow businesses to streamline and greatly improve the efficiency of delivery of value and as such in increase in income.

In many cases the domain of business and the problems it is intending on providing solution for may be unnecessarily complicated by the non-existence of standardized business procedure or management structure.

The goals of the business that is to be automated are as follows:

1. Care for the plants in preparation for their sale.
2. Put plants for sale and organize delivery through the postal service of convenience.
3. Provide customers and employees with instructions for plant care.
4. Track the history of orders and payments and present them in a form that would enhance management’s decision making.

Following from the goals of the business, the goals of this project are as follows:

1. Analyze business domain and create a logical framework of this application, specified roles of actors and map business entities.
2. Select fitting software components.
3. Create SQL statements that would be used to automate business process.
4. Organize application architecture.
5. Create User Interface.
6. Organize testing strategy for the application.

# 1 REQUIREMENTS OF THE INFORMATIONAL SYSTEM

The business process that is being automated by this application has three main roles of actors: consumer, producer and manager. Table 1.1. includes their goals as well as correspondence of input and output data related to them.

Table 1.1. – User Goals

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Number | Goal | Explanation | Input | Output |
|  | Consumer, Producer, Manager | | | |
| Z1 | Access the system. |  | Login  Password | Session |
|  | Consumer, Producer | | | |
| A1 | Search for plants that can be ordered. | Consumers have this goal to be able to order plants. Producers have this goal for analysis of posted plants. | Plant Groups  Plant Soils  Plant Regions  Price Range  Plant Name  Plant Age | Plants that specify search requirements |
| A2 | Search for instructions for plants. |  | Plant Group  Instruction Title  Instruction Description | Instructions:  Title  Description  Cover  Content |

Continuation of Table 1.1.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A3 | See detailed information for posted plant. | Consumer can do this to be able to perform more informed decision about ordering. | Plant Id | Plant Name  Description  Price  Group  Soil  Regions  Plant Images  Age  Seller Credentials  Caretaker Credentials |
|  | Consumer | | | |
| B1 | Order plant. |  | Post Id  Delivery Address |  |
| B2 | See previously used addresses on order. | This would speed up delivery process and improve experience. |  | Addresses:  City  Location |
| B3 | Confirm order to be delivered. |  | Order Id |  |
|  | Producer, Manager | | | |
| C1 | Find plants that are being prepared for post. |  | Limit to Cared | Plants:  Plant Name  Plant Description  Is cared flag |

Continuation of Table 1.1.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| C2 | Edit plant information. |  | Plant Id  New Plant |  |
| C3 | Create plant. |  | Plant Name  Plant Description  Plant Regions  Plant Soil  Plant Group  Pictures  Age | Plant Id |
| C4 | See plant prepared for sale. | Seeing the plant as a client would see it before it is posted would allow producer to create better posts. | Plant Id | Plant Post with no price specified |
| C5 | Post plant for sale. |  | Plant Id  Price |  |
| C6 | Create Instruction. |  | Group  Cover  Title  Description  Content | Instruction Id |

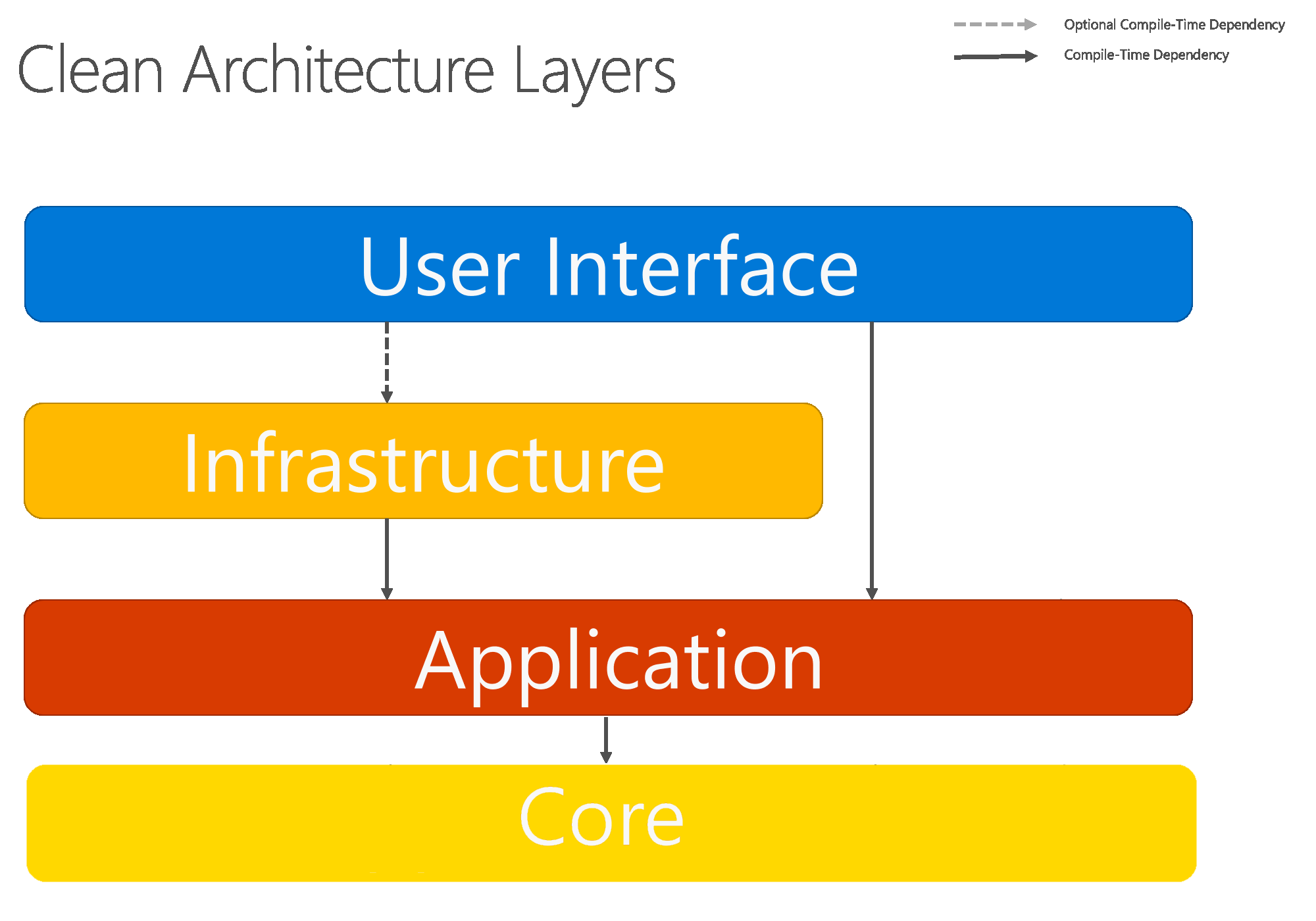
Continuation of Table 1.1.

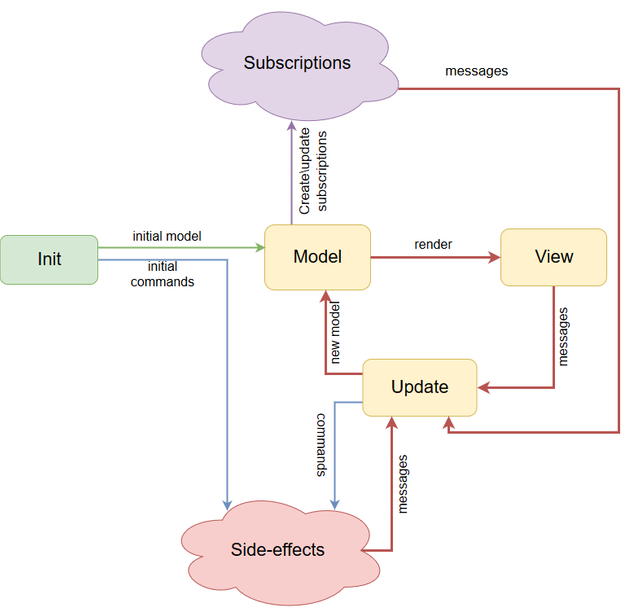
|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| C7 | Find users. | This allows managers to manage producers and producers to manage consumers. | Name  Phone Number | Users:  Name  Phone Number  Roles |
| C8 | Invite users. |  | Login  Roles  Email  Name  Phone Number | User created and email with temporary password send. |
| C9 | Update user roles. | This is limited to adding or removing roles that have lesser priority that the current user. | Login  Role |  |
| C10 | Remove post. | For producers this is limited to post that they have created. | Post Id |  |
| C11 | Update instruction. |  | Instruction Id  New Instruction |  |
| C12 | Reject order. |  | Order Id |  |
| С13 | Start Order delivery |  | Order Id  Tracking Number |  |

Continuation of Table 1.1.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Manager | | | |
| D1 | See popularity for plants based on their group |  |  | Plant Groups:  Income  Stock Number  Instructions |
| D2 | See financial info for plant based on their group |  | Time Range | Plant Groups:  Income  Sales Number  Sold Percent |

# 2 INFORMATIONAL SYSTEM ARCHITECTURE





# 3 MODELING OF THE DOMAIN OF INFORMATIONAL SYSTEM

# 4 USED TECHNOLOGIES AND SOFTWARE

# 5 DATABASE CREATION

# 6 DATABASE USERS

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# 8 STRUCTURE OF THE APPLICATION

# 9 USER INTERFACE FOR THE APPLICATION

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