# Practical-10

**Estimation and Planning**

## In an Agile Project, estimationsaredoneat3 levels as mentioned below: -

# Example: -

## STEP-1: List down all the Data Functions.

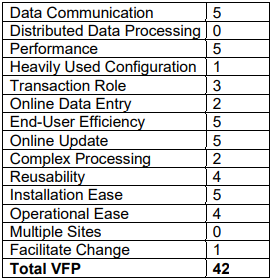
|  |  |  |
| --- | --- | --- |
| **Data FuSnctions** | **TYPE** | **UFP** |
| User Credential Information | ILF | 3 |
| Book/buy jewellery | ILF | 7 |
| Maintain order information | ILF | 7 |
| View the report of jewellery | ILF | 6 |
| Generate bill | ILF | 6 |
| Manage customer database | ILF | 5 |
| Add/remove customer from database | ILF | 4 |
| Update database | ILF | 6 |
| **Total** | | 44 |

## STEP-2: List down all the Transaction Functions

|  |  |  |
| --- | --- | --- |
| **TransactionFunction** | **Type** | **UFP** |
| Login and display main page | EQ | 8 |
| Logout and display logout screen | EQ | 8 |
| Change Password | EI | 6 |
| Select metal | EQ | 5 |
| Product category | EQ | 7 |
| Add to cart | EQ | 6 |
| Select city | EQ | 4 |
| Store locator | EQ | 4 |
| Gift card | EQ | 3 |
| Net value | EQ | 5 |
| Gender section | EQ | 4 |
| Weight selection | EQ | 6 |
| Feedback | EQ | 4 |
| Order tracking | EQ | 8 |
| Help & contact us | EQ | 6 |
| **Total** | | 84 |

**STEP-3:DerivingtheestimatedprojectsizeinFunctionPoints**

UFP = Data FP + Transaction FPUFP=44+84=128UFP



FP=UFP\*VFP

FP=128\*42

FP=5376FP

Productivity= 16FP/month (Normal Standard)

Effort=FP/Productivity

Effort=5376/16

Effort=336person/month

## ReleaseLevelEstimation:-

|  |  |  |
| --- | --- | --- |
| **US ID** | **USER STORY** | **ACCEPTANCE CRITERIA** |
| US-01 | User can login into the system | Given that I’m an active user of the system  When I login into the system  Then I need to login into the system using correct username and password.  When the username and password are incorrect  Then login cannot take place |
| US-02 | User can check for the jewellery | Given that I’m an active user of the system  When I click on the check/search jewellery  Then I can look for different jewellery with their cost and images. |
| US-03 | User can buy jewellery | Given that I’m an active user of the system  When I click on the buy  Then I can buy the selected/viewed jewellery. |
| US-04 | User can make payment for their jewellery | Given that I’m an active user of the system  When I click on the make payment  Then I can select for the payment mode whichever I want to select.  When I select debit card/credit card method  Then system will ask for Debit card/credit card number, name, CVV and OTP for the transaction.  When I select UPI method  Then payment can be done using any UPI method. |
| US-05 | User can view his/her own order details. | Given that I’m an active user of the system  When I click on the view order  Then I can view all my current order in my account and also see previous order transaction also over here. |
| US-06 | Manager can maintain order information | Given I’m a manager of the system  When I login into the system  Then I can manage all the order information.  When the order information is incorrect  Then I can manage and make changes to it. |
| US-07 | Manager can generate bills of the bookings of transactions | Given I’m a manager of the system  When I click on the Generate bills page  Then I can create the bills for the orders which I received from the customers.  When the bill get generated  Then I bill can be sent to the customer. |
| US-08 | Managers can view the report of jewellery. | Given I’m a manager of the system.  When I click on the view the report  Then I can view all the reports generated by the system of different orders. |
| US-09 | Admin can manage customer database. | Given I’m an owner of the system  When I login into the system  Then I can manage all the data about the customer and the whole database of customers. |
| US-10 | Owner can add/remove customers from the database. | Given I’m an owner of the system  When I want to add new user(customer)  Then I can add new user to the system  When I want to remove the user(customer)  Then I can make remove in the data of the users |
| US-11 | Owner can update database. | Given I’m an owner of the system  When I want to make changes in the database  Then I have to first login from owner id.  When I want to make changes in the database  Then I can make changes in the database as required. |

# Example:-

EstimationoftheaboveuserstoriesthroughtheNumericSizing:-

|  |  |
| --- | --- |
| **User Story ID** | **Estimated Story Points** |
| US-01 | 9 |
| US-02 | 8 |
| US-03 | 9 |
| US-04 | 7 |
| US-05 | 8 |
| US-06 | 10 |
| US-07 | 9 |
| US-08 | 9 |
| US-09 | 7 |
| US-10 | 9 |
| US-11 | 8 |

## SprintLevelEstimation:-

# Example:-

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **USID** | **TaskID** | **TaskDescription** | **TaskActivity** | **Priority**  **(1=low to** | **Status** | **EstimatedEffort**  **Hours** |
| US-01 | TAS-01 | LOGINPAGEDESIGN | SYSTEMDESIGN | 9 | DONE | 3 |
| US-01 | TAS-02 | LOGINGPAGECODING | BUILD | 9 | INPROCESS | 2 |
| US-01 | TAS-03 | TESTINGLOGINGPAGE | TESTING | 9 | NOTSTARTED | 1 |
| US-02 | TAS-04 | HOME PAGECREATION | BUILD | 6 | NOTSTARTED | 5 |
| US-02 | TAS-05 | HOME PAGETESTING | TESTING | 5 | NOTSTARTED | 2 |
| US-03 | TAS-06 | LOGOUTPAGECREATION | BUILD | 4 | NOTSTARTED | 3 |
| US-03 | TAS-07 | LOGOUTPAGE  TESTING | TESTING | 2 | NOTSTARTED | 1 |
| US-04 | TAS-08 | USER AUTH  AND VALIDATION | TESTING | 5 | NOT STARTED | 1 |
| US-05 | TAS-09 | ADD TO CART VALIDATION | BUILD | 7 | NOT STARTED | 3 |