

Practical-10

Estimation and Planning

In an Agile Project, estimations are done at 3 levels as mentioned below: -

Example: -

STEP-1: List down all the Data Functions.

<u>Data Functions</u>	<u>TYPE</u>	<u>UFP</u>
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

<u>Transaction Function</u>	<u>Type</u>	<u>UFP</u>
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

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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

Data Communication	5
Distributed Data Processing	0
Performance	5
Heavily Used Configuration	1
Transaction Role	3
Online Data Entry	2
End-User Efficiency	5
Online Update	5
Complex Processing	2
Reusability	4
Installation Ease	5
Operational Ease	4
Multiple Sites	0
Facilitate Change	1
Total VFP	42

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

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		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:-

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US ID	Task ID	TaskDescription	TaskActivity	Priority (1=low to	Status	Estimated Effort Hours
US-01	TAS-01	LOGINPAGE DESIGN	SYSTEM DESIGN	9	DONE	3
US-01	TAS-02	LOGINGPAGE CODING	BUILD	9	INPROCESS	2
US-01	TAS-03	TESTINGLOGINPAGE	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	LOGOUTPAGE CREATION	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