



IT-314

SOFTWARE ENGINEERING

Group 10

Lab - 3

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FlipThePage: An eBook library system

Task 3:

Develop sprints from the product backlog

- Specify your sprint details with an estimated timeline for development (use FP or OP for the estimation)
- Estimate how many sprints you can develop in your course project

For estimation, we've used function points. To calculate that we'll need the following:

- No. of External Input (EI)
- No. of External Output (EO)
- No. of External Query (EQ)
- No. of Internal Logical File (ILF)
- No. of External Interface File (EIF)

Function units and weights:

Function units	Low	Average	High
EI	3	4	6
EO	4	5	7
EQ	3	4	6
ILF	7	10	15
EIF	5	7	10

Sprint Planning

Estimation Method: Function Points (FP)

Sprint 1:

- **User Stories:**

1. As a Visitor, I want to register an account so that I can gain access to more features.
2. As an administrator, I want a verification system where the user needs to enter the required information and authorized ID to prove his/her authenticity.
3. As a registered user, I want to log in to my account, so that I can access my personalized library and features.
4. As a frequent user of the platform, I want the option to enable a feature that can remember me during login, so that I can stay logged in on my device without having to enter my credentials every time I access the platform.
5. As a registered user, I want to have the option to reset my password if I forget it, so that I can regain access to my account and continue using the platform without interruption.
6. As an Administrator, I want to manage the eBook catalog so that I can add or remove content as needed.
7. As a Visitor, I want to search the eBook catalog so that I can explore available books without registration.

- **Estimation:** Function Points:

$$EI=4+3+6+3+3+6+3=28$$

$$EOI=4+4+8+4+4+8+4=36$$

$$EQ=0+0+0+0+0+0+0=0$$

$$ILF=10+10+10+10+10+10+10=70$$

$$EIF=0+7+0+0+0+0+0=7$$

$$\text{Function Points} = 141$$

Sprint 2:

● **User Stories:**

1. As a User, I want to set/update my preferences so that I can find books tailored to my interests.
2. As a Visitor, I want to filter search results so that I can easily find relevant eBooks.
3. As a Visitor, I want to preview eBooks so that I can get a glimpse of the content before deciding to register or purchase.
4. As a User, I want to add eBooks to my wishlist so that I can keep track of books I'm interested in.
5. As a User, I want to view my reading history so that I can revisit books I've read before.
6. As a User, I want a reading interface where I can read the book online.

● **Estimation:** Function Points:

$$EI=4+5+3+3+3+4=22$$

$$EOI=4+5+4+4+5+5=27$$

$$EQ=0+0+3+0+3+3=9$$

$$ILF=7+0+0+7+0+7=21$$

$$EIF=0+0+0+0+0+7=7$$

$$\text{Function Points} = 22+27+9+21+7=86$$

Sprint 3:

● **User Stories:**

1. As an administrator, I want an online payment system with possible payment methods on websites so that readers can easily purchase the chargeable books.
2. As a User, I want to process payments securely so that I can complete transactions without concerns about fraud.
3. As a reader, I want to receive a payment receipt and receive an email notification after completing a transaction, so that I have proof of payment for my records and can reference the details of my purchase.

4. As a reader, I want to maintain a history of all my previous payment receipts, so that I can easily review past transactions and access payment details whenever needed.
5. As an Administrator, I want to monitor payment transactions so that I can ensure the integrity of the financial operations.

● **Estimation:** Function Points:

EI=18, EOI=25, EQ=12, ILF=7, EIF=0

Function Points = $18+25+12+7=62$

Sprint 4:

● **User Stories:**

1. As a User, I want to give feedback on eBooks through comments so that I can share my thoughts with other users.
2. As a User, I want the feature that can keep my identity anonymous to the others in the posted comments.
3. As a User, I want to rate eBooks so that I can help other users choose quality content.
4. As an administrator, I want to monitor and manage comments posted on the platform so that I can ensure compliance with community guidelines and prevent inappropriate or harmful content from being posted.

● **Estimation:** Function Points:

EI=17, EOI=17, EQ=9, ILF=30, EIF=0

Function Points = 73

Sprint 5:

● **User Stories:**

1. As an Author, I want to upload my eBooks to the library so that I can make them available to readers.
2. As an author, I want to view feedback and ratings for my eBooks and respond to readers' comments so that I can understand how readers

are engaging with my work and address their thoughts and suggestions.

3. As an author, I want to directly engage with readers through Q&A sessions, so that I can connect with my audience and build a community around my work.
4. As an author on the platform, I want to receive statements of my payments with detailed information on how the amounts were calculated, so that I can understand the breakdown of my earnings and verify the accuracy of the payments.

● **Estimation:** Function Points:
EI=17, EOI=17, EQ=8, ILF=30, EIF=0

Function Points = 72

Sprint 6:

● **User Stories:**

1. As an Administrator, I want to manage user accounts so that I can deactivate or ban users who violate policies.
2. As an Administrator, I want to create and manage promotions and offers so that users have incentives to use the platform.
3. As an Administrator, I want to track user activities and eBook access so that I can make informed decisions on system improvements.

● **Estimation:** Function Points:
EI=16, EOI=12, EQ=3, ILF=30, EIF=0

Function Points = 12+15+3+14+0=44

Sprint 7:

- **User Stories:**

1. As an administrator, I want to receive monthly reports detailing the revenue and costs, so that I can monitor the platform's financial performance and make informed business decisions.
2. As an author, I want to track my monthly earnings, so that I can monitor my income over time and assess the performance of my books.
3. As a frequent reader, I want to receive notification on the arrival of new books or any upcoming release of new editions so that I can remain updated.
4. As a reader, I want to share eBooks referral with others via social media, so that I can recommend books to my friends.
5. As an administrator, I want to give the authors a privilege to experience the features of the website free for a month as a free-trial.

- **Estimation:** Function Points:

El=9, EOI=20, EQ=3, ILF=14, EIF=15

Function Points = $9+20+3+14+15=61$