



IT-314 Software Engineering

Lab 3: Use Case Modeling and product Backlog

Group -14 (Social Media Platform)

TASK-3

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Sprint 1: User Registration & Authentication (1 week)

Goals:

- Implement user registration (sign-up, sign-in, password recovery)
- Create user profile setup (photo, bio, basic information)
- Develop authentication mechanisms (OAuth, email verification)

User Stories:

- **Create new account**
 $[(1*3) + (1*4) + (1*3) + (1*7) + (1*5)] * 0.65 = 16.25$
Estimate: 16.25 FP
- **Login User**
 $[(1*3) + (1*4) + (1*3) + (1*7) + (0*5)] * 0.65 = 14.3$
Estimate: 14.3 FP
- **Forgot Password**
 $[(1*3) + (1*4) + (1*3) + (1*7) + (0*5)] * 0.65 = 14.3$
Estimate: 14.3 FP
- **Reset Password**
 $[(1*3) + (1*4) + (1*3) + (1*7) + (1*5)] * 0.65 = 16.25$
Estimate: 16.25 FP

Total Estimate: 61.1 FP

Sprint Duration: 1 week

Sprint 2: User Profiles & Connections (2 weeks)

Goals:

- Develop features for creating and managing user profiles.
- Basic friend/follow functionality.

User Stories:

- **Create/Edit User Profile**
 $[(2*3) + (1*4) + (1*3) + (2*7) + (0*5)] * 0.65 = 19.5$
Estimate: 19.5 FP
- **Follow/Unfollow Users**
 $[(1*3) + (1*4) + (1*3) + (1*7) + (0*5)] * 0.65 = 13$
Estimate: 13 FP
- **View Other Users' Profiles**
 $[(1*3) + (1*4) + (1*3) + (1*7) + (0*5)] * 0.65 = 13$
Estimate: 13 FP
- **Profile Privacy Settings**
 $[(1*3) + (1*4) + (1*3) + (1*7) + (0*5)] * 0.65 = 13$
Estimate: 13 FP

Total Estimate: 58.5 FP

Sprint Duration: 2 weeks

Sprint 3: Posts, Likes & Comments (2 weeks)

Goal:

- Implement the main feed, post creation, likes, and comments.
- Add like and comment features on posts

User Stories:

- **Create Post**
 $[(2*3) + (1*4) + (1*3) + (1*7) + (1*5)] * 0.65 = 18.85$
Estimate: 18.85 FP
- **Like Post**
 $[(1*3) + (1*4) + (1*3) + (1*7) + (0*5)] * 0.65 = 13$
Estimate: 13 FP

- **Comment on Post**

$$[(1*3) + (1*4) + (1*3) + (1*7) + (0*5)] * 0.65 = 13$$

Estimate: 13 FP

- **Share Post**

$$[(1*3) + (1*4) + (0*3) + (1*7) + (0*5)] * 0.65 = 10.4$$

Estimate: 10.4 FP

- **View Feed**

$$[(1*3) + (1*4) + (1*3) + (1*7) + (0*5)] * 0.65 = 13$$

Estimate: 13 FP

Total Estimate: 68.25 FP

Sprint Duration: 2 week

Sprint 4: Messaging & Notifications (1.5 week)

Goal:

- Develop direct messaging functionality between users
- Add notification for new messages
- Implement message history and search within messages

User Stories:

- **Send/Receive Messages**

$$[(2*3) + (1*4) + (1*3) + (1*7) + (1*5)] * 0.65 = 18.85$$

Estimate: 18.85 FP

- **Message Threads/Conversations**

$$[(1*3) + (1*4) + (1*3) + (1*7) + (0*5)] * 0.65 = 13$$

Estimate: 13 FP

- **Notifications for New Messages**

$$[(1*3) + (0*4) + (0*3) + (1*7) + (0*5)] * 0.65 = 6.5$$

Estimate: 6.5 FP

- **Post Likes/Comments Notifications**

$$[(1*3) + (0*4) + (0*3) + (1*7) + (0*5)] * 0.65 = 6.5$$

Estimate: 6.5 FP

Total Estimate: 44.85 FP

Sprint Duration: 1.5 weeks

Sprint 5: Search & Explore (1.5 weeks)

Goal:

- Implement search functionality and explore options for users.

User Stories:

- **Search Users**

$$[(1*3) + (1*4) + (0*3) + (1*7) + (0*5)] * 0.65 = 10.4$$

Estimate: 10.4 FP

- **Search Posts by Keywords/Hashtags**

$$[(1*3) + (1*4) + (0*3) + (1*7) + (0*5)] * 0.65 = 10.4$$

Estimate: 10.4 FP

- **Discover/Explore Page**

$$[(1*3) + (1*4) + (0*3) + (1*7) + (1*5)] * 0.65 = 13.65$$

Estimate: 13.65 FP

Total Estimate: 34.45 FP

Sprint Duration: 1.5 weeks

Sprint 6: Admin & Moderation Tools (1.5 weeks)

Goal:

- Build features for platform administration and user
- Add admin tools for user management (ban/suspend accounts, moderate content)
- Strengthen platform security (implement 2FA, encryption for sensitive data)

User Stories:

- **Suspend/Restore User Accounts**
 $[(1*3) + (1*4) + (1*3) + (1*7) + (1*5)] * 0.65 = 14.3$
Estimate: 14.3 FP
- **Report Content/Users**
 $[(1*3) + (1*4) + (0*3) + (1*7) + (0*5)] * 0.65 = 10.4$
Estimate: 10.4 FP
- **Delete/Moderate Inappropriate Content**
 $[(1*3) + (1*4) + (0*3) + (1*7) + (1*5)] * 0.65 = 14.3$
Estimate: 14.3 FP

Total Estimate: 39 FP

Sprint Duration: 1.5 weeks

Total Project Duration:

- Number of Sprints: 6
- Total Estimated Time: 10-11 weeks

