Sub-teams Details

Sub-team No.	Scrum Masters Details:		Number of Team Members	Member Name & ID (per row)		Microservice(s) to Implement	Design Patterns Used (per row)	Functionality (User Story) (per row)
	Name:	Email:		Name	ID			
1	Youssef El Sharkawy	yelsharkawy42@gmail.com	4	Youssef El Sharkawy	52-11003	User, Communities, API Gateway	User App: Singleton, Builder Communities: Factory to define what types to have, builder for tags	User app: Login, follow users, block user
				Philip George	52-19301			
				Seif Assem Elkholy	52-17247			Communities app: Find Communities using Tags
				Eyad Nasser Saad	52-16834			Communities app: Subscribe to Communities
								Communities app: Hide Community
2	Youssed Saleh	youssef.saleh@student.guc.edu.eg	5	Youssed Saleh	52-1998	Threads app, Caching, Message Queues	Threads: composite design pattern for comments command pattern for banning, comment, removal.	Threads app: comment on thread, Votes (upvote,downvote), report
				Omar Elshafey	52-3681			
				Zeina Hesham	52-12242			
				Marwan Yehia	52-2508			
				Youssef Ihab	55-4191			
3	Alaa Aref	alaa.aref@student.guc.edu.eg	5	Mohamed Amgad Mohamed	52-3635	Moderation app & notifications app, Deployment	Moderation: Command pattern Notification app: factory, strategy => different ways of sending notification, inapp notification or mail or notification on phone (banner)	Moderator: Assign a moderator, Ban user, View users report
				Mohamed Khalid	52-12772			Notifications: recieves notifications replies for posts and comment, user get banned notification, recieve notification for report, notification when subscribe to community
				Kareem Osama	52-10614			
				Alaa Aref	52-13082			
				Ziad Emad	55-5053			

Database Design

Microservice Name	Database Type (SQL/NoSQL)	Database Design Description (Schema, Collections, Relationships, etc.)
User	Postgres	User to moderator, moderator to community, User to Community (many to many)
Communitites	NoSQL (Mongo)	Communities has many moderators, Moderators moderate may communities
Threads	NoSQL (Mongo)	Threads one to one with communities, Thread to User (many-one)
Moderation	Postgres	
Notification	NoSQL (Mongo)	To User (many to many)

Technological Stack

SQL Data Engine	Postgres
NoSQL Data Engine	Mongo
Load Balancer	Kubernetes

Microservices Communication

Sync(OpenFeign)	Thread - Communities (Upon Creating Thread) User - Thread (Reporting to get the ID) User - Thread (Delete thread)
Async(RabbitMQ)	User - Communities(Upon User Deletion) User - Moderator (Report thread)

Main Scrum Master Details

Name	Email
Youssef El Sharkawy	yelsharkawy42@gmail.com

Reflection Usage

Location of Reflection Usage	In User Service (user actions)