

Setting up tasks and resources

1. Identifying my resources

- **Time:** How much time can you realistically dedicate to this project per week?
- **Skills:** What are your strengths (e.g., Python, Flask/Django, cryptography)? Where do you need to learn or improve?
- **Tools:** What software, libraries, or services will you use? (e.g., Python, Flask/Django, SQLite/MySQL, cryptography library - specify which one, IDE, Git, project management software).
- **Budget:** Although this is a personal project, consider any costs like hosting, domain name (if you plan to deploy it), or paid software/services.

2. Breaking down the project into tasks

- List all the tasks required
 - Set up Flask/Django project.
 - Design database schema.
 - Implement user authentication (registration, login, logout).
 - Implement password hashing with bcrypt/Argon2.
 - Implement AES encryption for messages.
 - Implement RSA for key exchange.
 - Create inbox/outbox functionality.
 - Develop web interface (HTML, CSS, JavaScript).
 - Write unit tests.
 - Write documentation.
 - Deploy the application.

4. Assign Resources to Tasks

- Allocate time for 5-7 PM 2 hours of developing.
- I have all tools for my web app
- May need to pay for hosting

5. Prioritize Tasks

- Identify critical tasks that need to be completed first (e.g., setting up the basic framework, implementing user authentication).
- Use a project management technique like MoSCoW (Must have, Should have, Could have, Won't have) to prioritize features.

6. Track Progress and Adjust

- Regularly monitor your progress and compare it to your estimates.

- If you're falling behind, identify the reasons why and adjust your plan accordingly. This might involve re-prioritizing tasks, allocating more time, or seeking help.
- Use a project management tool (e.g., Trello, Asana, Jira, Clockify) to track tasks, deadlines, and progress.

Example Resource Allocation Table

Task	Resource: Time (hours)	Resource: Skills	Resource: Tools
Set up Flask project	2	Python, Flask	VS Code, Git
Implement user registration	8	Python, Flask, Databases	VS Code, Git, SQLite
Implement bcrypt password hashing	4	Python, bcrypt library	VS Code, Git
Implement AES encryption	6	Python, AES library	VS Code, Git
Create inbox/outbox functionality	10	Python, Flask, Databases,	VS Code, Git, SQLite, HTML/CSS
Write basic documentation	4	Writing, Markdown	Text editor, Git