

# Work Breakdown Structure

## 1. Project Planning

- Define Objectives and Scope
- Identify Target Platforms (e.g., WhatsApp, SMS, Instagram, LinkedIn)

## 2. Development Environment Setup

- Install Python and Development Tools
- Set Up a Virtual Environment

## 3. Create a Basic Chatbot

- Design the Chatbot Logic
- Implement Message Processing
- Test the Chatbot Locally

## 4. Tkinter GUI Development

- Create a Tkinter Interface
- Integrate Chatbot Logic with the GUI
- Test the Chatbot GUI

## 5. API Integration (Platform-Specific)

- Choose Messaging Platform(s) (e.g., WhatsApp, SMS, LinkedIn)
- Register and Authenticate for API Access
- Implement API Integration

## 6. Refinement and Testing

- Test the Chatbot with Each Platform
- Debug and Optimize the Code
- Conduct User Testing and Gather Feedback

## 7. Deployment

- Set Up a Hosting Environment (e.g., Flask Server)
- Deploy the Chatbot
- Configure Webhooks for Real-time Communication

## **8. Documentation and User Guide**

- Create Documentation for Usage and Deployment
- Prepare a User Guide

## **9. Training and Support**

- Train Team Members or Users
- Provide Ongoing Support and Maintenance

## **10. Launch and Monitor**

- Launch the Chatbot on Target Platforms
- Monitor Performance and User Interactions
- Make Necessary Improvements and Updates

## **11. Project Closure**

- Review Project Goals and Objectives
- Finalize Documentation and User Guides
- Ensure Ongoing Support and Maintenance