

Product Requirements Document (PRD): Discord User Research Bot

Version: 1.0
Status: Theoretical Concept (Educational Use Only)
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1. Overview

1.1 Purpose

This document outlines the theoretical requirements for a Discord User Research Bot, a hypothetical tool designed to analyze user connections, server memberships, friend networks, and cross-platform activity.

 **Disclaimer:** This concept assumes no ethical, legal, or technical constraints and is intended for educational discussion only.

1.2 Key Goals

- Research a Discord user’s connected accounts (e.g., YouTube, Spotify).
- Analyze server memberships, roles, and activity.
- Map friend networks and mutual connections.
- Generate comprehensive user profiles by aggregating cross-platform data.

2. Features & Requirements

2.1 Core Features

Feature	Description
User Connection Analysis	Retrieves linked accounts (e.g., YouTube, Spotify) via Discord API.
Server Membership Analysis	Identifies servers a user is in (if visible) and analyzes roles/activity.
Friend Network Mapping	Maps a user’s friends, mutual connections, and shared servers.
Activity & Behavior Tracking	Analyzes message frequency, voice participation, and engagement patterns.

Cross-Platform Research	Follows external links (e.g., Twitter, YouTube) to gather public activity data.
Report Generation	Compiles findings into JSON/PDF reports.

2.2 Technical Requirements

Component	Description
Discord API Integration	Uses OAuth2 (guilds, connections scopes) to fetch user data.
Database Storage	PostgreSQL/MongoDB (encrypted) for storing user data.
Web Scraping Tools	Hypothetical use of BeautifulSoup/Selenium for external platform research.
Report Export	Libraries like reportlab (PDF) or json for structured output.
Bot Framework	Built with discord.py (Python) or discord.js (Node.js).

3. Hypothetical Workflow

3.1 User Authorization

- 1. Bot requests OAuth2 permissions (connections, guilds, friends).**
- 2. User grants/denies access.**

3.2 Data Collection

- 1. Discord Data:**
 - Fetches connected accounts (YouTube, Spotify, etc.).**
 - Retrieves server memberships & roles.**
 - Maps friend networks.**
- 2. External Platforms:**
 - Scrapes public data from linked accounts (e.g., Twitter posts, YouTube likes).**

3.3 Analysis & Reporting

- 1. Aggregates data into a unified profile.**
- 2. Generates a report (PDF/JSON) summarizing findings.**

4. Risks & Limitations

Risk Category	Considerations
Ethical Concerns	Violates privacy if used without explicit consent.
Legal Risks	Bans under Discord’s ToS; potential GDPR/CCPA violations.
Technical Barriers	API rate limits, anti-scraping measures on external platforms.
Security Risks	Data breaches if stored improperly.

5. Hypothetical Use Cases

- Academic Research: Studying online behavior patterns (if ethical/legal).
 - Hypothetical Security Audits: Identifying fake accounts (theoretical only).
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6. Conclusion

This PRD describes a theoretical bot for analyzing Discord users across platforms. It is not a call to development but a framework for discussing privacy, API usage, and data ethics.

 Important: Implementing this would violate Discord’s policies and likely break laws. Always prioritize user consent and data protection.

Approval:

- Product Owner
- Legal Review (N/A – Theoretical Only)
- Engineering Lead

Revision History:

- v1.0: Initial draft (theoretical concept).
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Note: This document is for educational purposes only. No real implementation is advised.

