**ThisPDF.com**  
PDF-sharing platform

(Documentation)

**MicroServices + Tech-Stack:**

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| **Microservice** | **Purpose** | **Tech Stack** | **Port(Docker)** |
| Auth Service | User registration, login, authorization tokens | Node.js + JWT | 3001:3001 |
| User Profile Service | Manage user profile, avatars | Node.js + PostgreSQL | 3002:3002 |
| Upload Service | PDF upload, virus scan, metadata extract | Flask + ClamAV | 3003:3003 |
| Metadata Service | Store and manage Meta data | Node.js + PostgresSQL | 3004:3004 |
| Viewer Service | In-browser PDF rendering & preview | Node.js + PDF.js | 3005:3005 |
| Search Service | Full-text & tag-based search | Meilisearch | 3006:3006 |
| Comments Service | Comments, likes, replies | Node.js + MongoDB | 3007:3007 |
| Favorites Service | Favorite/bookmark a PDF/user | Node.js + MongoDB | 3008:3008 |
| Analytics Service | Track views, likes/dislikes, minutes read | Kafka + ClickHouse | 3009:3009 |
| Notification Service | Comments alert, in-app alerts | Node.js + Redis |  |
| Global Chat Service | Real-time chat with blue horn (highlight message) and gold horn pinned message | Node.js + Socket.IO + Redis + MongoDB |  |
| Friend Service | Friend request & friend list | Node.js + MongoDB | 3011:3011 |
| API Gateway | Route external/internal traffic | NGINX |  |
| **Supporting Technology** | | | |
| **Technology** | **Purpose** | | **Port** |
| ReactJS | Frontend UI | | 3000:3000 |
| ClamAV | Antivirus scanning | | 3310:3310 |
| Redis | In-memory data store / PubSub | | 6379:6379 |
| Mongo | NoSQL document database | | 27017:27017 |
| Postgres | Relational database | | 5432:5432 |
| PGadmin | PostgreSQL GUI management tool | | 5050:80 |
| MinIO | Object storage (S3 compatible) | | 9000:9000 |
| MinIO Console | MinIO web console | | 9001:9001 |

**Core Features:**

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| **Feature** | **Purpose** |
| **PDF Uploads** | * Upload public or private files * Private PDFs visible only to friends * Metadata extraction and category assignment |
| **Friend System** | * Friend requests (accept/reject/unfriend) * Private PDFs visible only to friends |
| **Global Chat (with Horn System)** | * Blue Horn: Highlight message (5 every day) * Gold Horn: Pinned message (1 per week) |
| **Comments** | * Comment on PDFs or users * Like/Dislikes * Reply Comments |
| **Favorites & Ratings** | * Favorite a PDF or a user * 1–5 star ratings * Feed of favorite content |
| **Categorization & Tagging** | * PDF tags for search indexing * Categories and subcategories (e.g. “Science > Physics”) |