

LIFELINK ORGAN DONATION



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INTRODUCTION

- Connects organ donors and recipients, streamlining the donation process.
- Utilizes a matching algorithm for matches and supports secure communication.
- Suggests nearby hospitals for consultation and provides information on organ donation.

OBJECTIVE

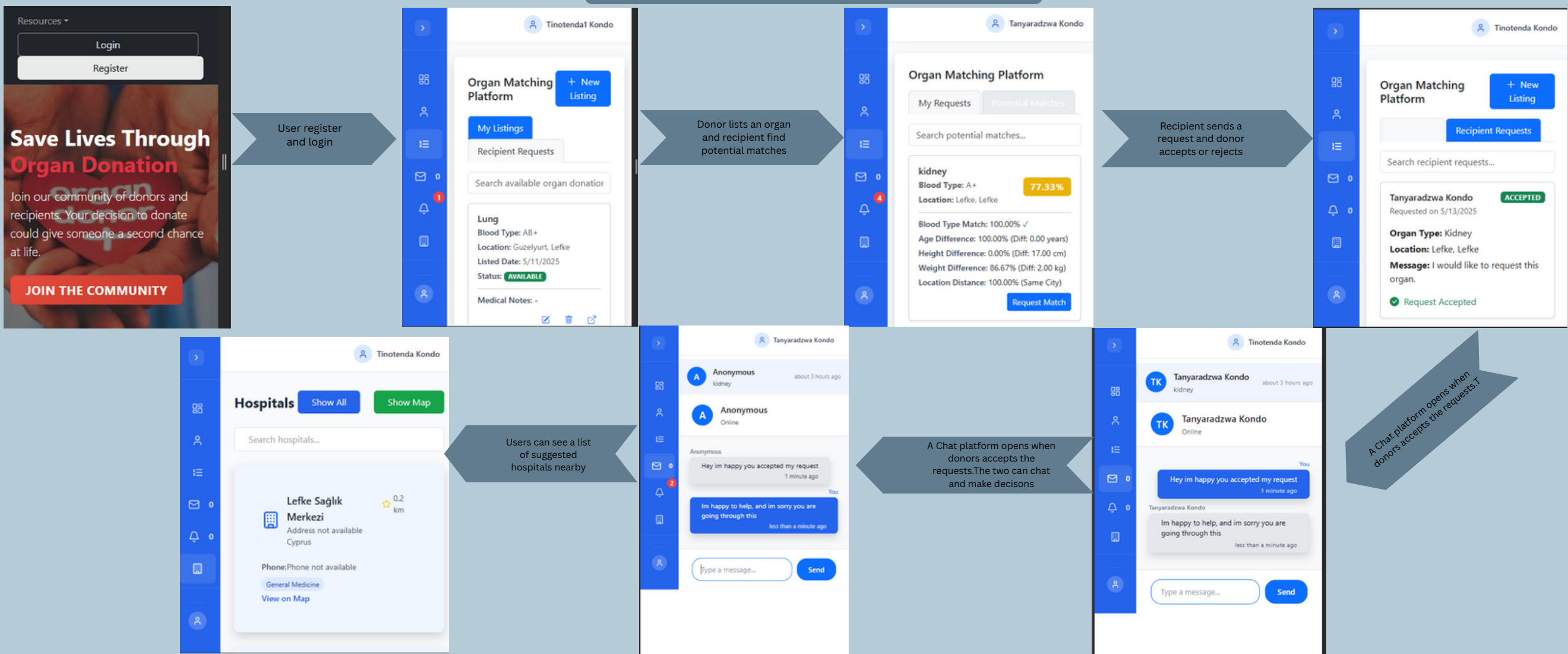
- Optimize the organ donation process with an advanced matching algorithm.
- Ensure secure communication between donors and recipients.
- Provide information on nearby hospitals for consultations.
- Educate users about organ donation.

METHODOLOGY

- Frontend: Built with React + TypeScript, styled using Bootstrap and TailwindCSS.
- Backend: Developed with Django and Django REST Framework (DRF).
- Real-Time Chat: Implemented using WebSocket, Django Channels, and Redis

- Authentication: Secured with JWT tokens via DRF Simple JWT.
- Database: Used MySQL with Django ORM to manage all user and match data.
- Development Tools: Vite for fast builds, Axios for APIs, ESLint for code quality

RESULTS



CONCLUSION

- Platform links organ donors and recipients with real-time chat and hospital recommendations.
- Optimized messaging with Django Channels.
- UI design accelerated by TailwindCSS.
- Future: develop apps and integrate machine learning for better matching.