

# MeDiQ – Smart Organ Donation

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**Abstract – One major challenge in healthcare today involves managing organ donations effectively. Paper-heavy methods slow things down. Separate data silos across clinics create confusion. Mistakes happen more often than they should. A new approach enters here: MeDiQ – Smart Organ Donation Platform. This tool shifts everything online, replacing outdated steps with digital precision. Registration opens up for both givers and those in need. Medical details stay protected using modern safeguards. Appointments line up without back-and-forth delays. Everyone involved sees changes as they occur - patients, doctors, coordinators. At its core runs intelligent pairing logic. Matching considers key health points like tissue compatibility, blood category, how urgent the case is, where people are located. Speed improves. Fairness strengthens. Transparency grows. Efficiency rises without sacrificing safety. Centralized oversight helps hospitals work together better by streamlining how information is shared and protected. Thanks to improved tracking and clearer processes, MeDiQ makes organ donation systems run smoother - boosting trust, speed, and consistency across medical teams. While delays shrink, care quality rises quietly behind the scenes.**

**Keywords – Digital Healthcare Meets Transplant Management Through Web Based Platforms Using Artificial Intelligence**

## 1. INTRODUCTION

Getting organs to patients who need transplants depends on precise, open, and fast coordination within health care. Yet most current systems run on piles of paper forms, separate hospital records, and sluggish office routines instead. Because of these flaws, assigning available organs takes longer than needed while mistakes happen more easily, weakening trust in how donors link to recipients [2][7]. Without one shared online platform, exchanging up-to-date information across medical centers, people waiting for organs, and oversight groups becomes messy and unreliable.

Facing these issues, a solution emerges: MeDiQ, a smart digital platform built to modernize organ donation via the web. Instead of fragmented steps, it brings together donors, patients, clinics, and oversight teams on one shared space - keeping everyone linked. Communication flows clearer when records appear in real time, appointments set without delays, and personal health details stay protected under strict access rules. Tasks once handled by hand now shift into automated workflows, cutting down errors while saving time. With verified logins and clear tracking, trust grows among users who can follow progress openly. Digital setups like this tend

to invite more involvement, simply because visibility replaces confusion [7].

Although built on artificial intelligence, the method sharpens matches between donors and recipients through careful review of factors like organ kind, blood type alignment, how urgent a case is, also where people are located. Because it runs with minimal human input, choices happen faster - fairness stays tied strictly to health-based need. Accuracy climbs while wait times shrink, pushing transplant success higher [4][6].

Though built carefully, MeDiQ keeps medical records safe using strict entry rules and solid digital tracking. Accessible by hospitals and officials, special viewing panels show what happens when someone uses the system. Running on shared online storage, updates appear instantly no matter where teams work. In practice, it replaces outdated transplant methods with something faster, safer, still clear about who does what.

## 2. PROBLEM STATEMENT

**1. Manual and Paper-Based Processes:** Some hospitals stick to handwritten forms when signing up donors or logging health details. Because of this, tasks take longer than needed while staff face heavier demands. Mistakes become more likely since everything depends on individual input. When urgent situations arise, critical steps might stall without quick access to updated information.

**2. Lack of a Centralized System:** Without one central system, each hospital keeps organ donor records on its own. When these systems fail to link up, matching patients with available organs takes longer. Separate databases slow down updates across medical centers. Coordination gaps appear because teams work without shared access. Timely exchanges of critical details often break down.

**3. Poor Transparency in Organ Allocation:** Hidden details cloud the way organs get shared. Patients and those willing to give rarely see what happens behind the scenes. Tracking where an organ goes stays out of reach for most. This gap feeds doubt among people involved. Fairness grows harder without open access to how choices unfold.

**4. Inefficient Donor-Recipient Matching :** When donor and recipient pairing relies on manual methods, errors creep in easily. Checking blood type, tissue markers, organ size - each step adds pressure on hospital teams. Decisions slow down when too many variables pile up at once. Outcomes sometimes suffer because timing slips away unnoticed.

**5. Delays in Emergency Situations:** When emergencies arise, transplant timelines slip because current methods rely on manual steps instead of automated support. Coordination often drags without fast digital links across medical centers. Messages crawl through outdated channels, stalling critical operations. Lives hang in balance when organs wait too long to be placed. Wasted donations become more likely under such pressure.

**6. Data Security and Privacy Issues:** Because medical information demands strict protection, keeping it safe from unwanted eyes becomes critical. Breaches often target central storage setups, exposing their weak spots. Instead of relying on old models, better safeguards can help guard patient details. Without solid defenses, private records face higher risks online.

**7. Lack of Real-Time Communication:** Communication delays between donors and recipients are common. When information about organ condition lags, misunderstandings grow. Efficiency fades as coordination breaks down. Timing matters - without it, trust slips away.

**8. Absence of Proper Organ Tracking:** Without clear paths for organ movement, mistakes happen more easily. When donations move without solid oversight, errors can go unnoticed. Systems today often fail to follow each step closely. Safety weakens when tracking breaks down. Mistakes grow likely where records stop.

**9. Inefficient Appointment Scheduling:** Poor planning of appointments often leads to double-booked slots along with extended delays. Because hospitals handle many organ transplant demands, keeping track becomes tough without support. What helps here is a structured approach to organizing time slots.

**10. Limited Use of Modern Technologies:** Though some transplant networks rely on older methods, others have begun testing new digital aids. Where smart software is missing, pairing donors with recipients takes more time. Efficiency drops when decisions lack real-time data support. Outdated processes often lead to mismatches or delays. Performance suffers without adaptive systems in place.

### 3. LITERATURE SURVEY

- 1. Blockchain-Based Management for Organ Donation and Transplantation (IEEE, 2022)** In 2022, Diana Hawashin with colleagues introduced a system based on a private Ethereum blockchain designed for managing organ donations. Instead of relying on one main authority, power is shared among multiple nodes - ensuring data cannot be altered after entry. Enrollment, verification, and matching between donors and recipients unfold through automated processes driven by self-executing contracts. Since each step creates a visible record, following developments across time turns out clear. While actions accumulate, their history stays fixed within the network. Later on, smart sorting could still fit inside, even if today's priority is honesty and transparency. Growth stays possible because changing health demands won't break the framework. Rather than picking a single fixed route, it bends when needed.
- 2. Organ Donation Management Using Blockchain (IJFMR, 2024)** Blockchain offers a new way to manage organ donation data, according to research from Mayur Raghvani and colleagues in 2024. Using Ethereum-based smart contracts, it allows safe sharing of health details while cutting out centralized oversight. With no one entity in charge, who can view what becomes clear through code-driven encryption methods. When systems speak the same built-in rules, mismatched formats stop being a barrier. Transparency grows where trust once relied on institutions. Even when rules change, staying within health guidelines stays possible since privacy is built into the system from the start. Instead of relying on organizations, people lean on transactions that can be checked and never disappear. Databases controlled by one party - usually

weak to interference - are replaced by networks agreeing together. Across the whole network, trust builds up slowly - not through words given, yet due to how software consistently acts.

- 3. Blockchain-Based Organ Donation System (IJARCCE, 2025)** A fresh method for handling organ donations takes shape via blockchain, detailed by Samreen Begum and colleagues in 2025. Moving beyond standard record systems, the model relies on self-executing contracts to handle sign-ups without manual steps. Identity checks happen through encryption tools, while real-time tracking follows organs during transit. With AI studying match trends early, pairing becomes faster - also more accurate. While sensors on connected devices monitor conditions like temperature in real time, precise tracking emerges through aligned updates among participants. Because each step is recorded transparently but protected, oversight becomes more accountable. As a result of shared access to tamper-proof logs, confidence builds across partners even without a central authority.
- 4. LifeShare – Intelligent Blood and Organ Donation Management (IEEE, 2020)** Out of nowhere came LifeShare, a system designed by Wijeyathilaka and colleagues, rethinking how donations could work. Running on blockchain, its core tracks behavioral trends more than mere exchanges. Rather than sticking to fixed logs, choices unfold via Ethereum-based smart contracts. From data, forecasts grow - KNN and linear regression together sketch likely needs ahead. Pairings succeed when biology aligns, yet also consider miles between donor and recipient, urgency folding in too. What builds trust is knowing who did what, making each step clear to participants. Interest grows once people sense fewer hidden corners in how things work. Fairness often hides inside lines of code, quietly inviting more voices into the process. Gains in efficiency appear through better alignment, not just faster motion. Design choices leave transparency behind, like footprints, even if it was never named outright.
- 5. Blockchain-Based Organ Donation Platform: Defeating Trafficking and Ensuring Transparency (IRJASH, 2023)** A single ledger tracks organ donations securely, cutting illegal trade through clear records. On Polygon's framework, every move - giving approval to surgery - locks in place permanently. Verification runs via digital identities linked by automatic agreements across connected points. Rather than depend on central authorities, information spreads evenly among many locations. Every shift gets recorded, nothing vanishes without a trace. Dashboards show real-time data flows to oversight teams. When actions leave footprints, hidden moves become risky. Visibility does not wait for problems to appear first. Oversight runs nonstop, built into the system's rhythm. Once added, transactions stay fixed within the sequence. Because people realize their moves get logged, supervision gets stronger. Predictability in how things run comes from steady recording practices. When users notice checks occurring live, prevention of misconduct follows without force. Reliance moves away from organizations toward rules built into software. Even when single nodes break down, records stay protected against changes. Because data remains intact, trust grows stronger through every handoff. From start to finish, each organ's path becomes clear to see. The moment it is logged at sign-up, tracking continues without pause until after transplant happens. As shadows shrink in the system, responsibility naturally increases.
- 6. Organ Donation Management and Allocation System (IRJES, 2024)** Built by G. Angel and colleagues, a platform connects cloud storage to blockchain, steering organ distribution via intelligent decisions. On Ganache, it secures data closely, pairing recipients based on medical urgency, lifespan, and bodily compatibility. Rather than fixed criteria, selection relies on machine learning - delivering faster outcomes while keeping fairness intact. With this mix, trust builds even as response speed improves - key for intricate healthcare systems. When situations evolve, choices adapt without losing ethical grounding, especially when stress rises.

Under pressure, moral clarity remains intact while actions stay quick.

7. **Online Organ Donation Management System (IRJMETS,2023)** Built by Priyanka Pangarkar and her group, a digital platform now oversees organ donation processes using layered ID validation plus unique identifiers for each giver. Instead of just connecting people, the system increases transparency while holding engagement steady via sharper monitoring tools. Where information shortfalls slow outcomes - particularly in areas with limited infrastructure - it strikes directly at those hurdles. For ironclad confirmation, facial recognition works alongside timed entry codes throughout authentication stages. Openness builds reliability, which in turn invites deeper participation. Where technology remains scarce, thoughtful structure narrows gaps in health information networks, drawing communities gradually toward critical care initiatives.

8. **Blockchain and Organ Donation Management Framework (B&ODM,2021)** Starting from earlier observations, the Blockchain and Organ Donation Management Framework (B&ODM, 2021) blended blockchain technology with cloud systems to handle donor information across hospital networks. Instead of depending only on central servers, the design used decentralized connections to align data flow among facilities. By focusing on logged changes and authenticated entry points, trust grew within organ distribution workflows. While not tested in practice, its layout hinted at fewer mismatches when sharing medical details. Its foundation, drawn from past findings, offered a path toward more consistent recordkeeping. With every transaction locked in permanently, monitoring grows stronger across clinics. As years pass, these setups could reshape the reach of secure handling within linked healthcare networks.

#### 4. OBJECTIVE

One way to improve organ donation is moving processes online, which reduces paperwork. Not only does digital registration simplify enrollment for participants, but it also accelerates matching. As forms go live, bottlenecks from manual entry fade. Because security shapes every stage, information stays protected. What stands out is how structure supports both trust and performance. Now simpler to sign up, though still complete in detail. With data moving quicker among participants, tasks finish faster.

Matching donors with recipients improves when medical data flows into automated systems. As processing grows smarter, accuracy climbs - errors shrink at the same time. Urgent transplant decisions move quicker, skipping slow human steps along the way. Reliability strengthens even as pace increases, reshaping outcomes quietly. Earlier bottlenecks fade, replaced by steady, unseen coordination.

One system might connect hospitals, donors, and recipients in a clearer way. As operations continue, communication flows quicker among participants. With better monitoring, supervision gets easier no matter the site. The moment data shifts, each person included observes the new status immediately. Over time, participation might grow on its own as confidence strengthens. Delays tend to drop when people share resources, even if obstacles remain.

Quick progress often follows the drop of outdated routines, replaced by faster moves and real-time updates. Fresh info reaches medical teams just as urgency rises, shifting how care unfolds. Delays in recording delay reactions; constant monitoring prevents holdups. With facts arriving on time, choices take shape rapidly. What counts above all? Moments stretch thin when every second lost risks survival.

Protecting private health details means restricting access solely to those permitted, relying on dependable digital platforms. Because systems log every action, assigning accountability becomes

straightforward. Confidence grows in record handling once people know misuse is unlikely. Integrity of data holds firm where oversight links each step to a specific user.

#### 5. Scope Of System –

Because digital tools exist, managing organ donations becomes simpler for hospitals. Alongside donor networks, transplant agencies connect using common systems. Secure pathways allow recipients to reach updates on available organs. When information flows fast between all sides, things run more smoothly.

A single platform manages both donor registrations and patient entries, keeping medical details secure via encryption. Behind the interface, intelligent calculations replace human sorting when finding matches. Time planning unfolds within that same setup, eliminating constant shifts across separate apps. Everything lives together - sign-ins, files, match rules, calendar links - operating smoothly as one flow.

Under this system, hospitals see clearer paths for organ delivery. Because data moves freely, clinics link up with less friction. Confusion fades as steps become transparent. With timing and recipients visible, trust builds gradually. When one center adjusts, others follow without delay. Later results reflect today's choices instantly. Fairness grows through changes that keep pace, yet lose no speed.

With dashboards in place, operational tracking becomes part of routine admin work - decisions gain speed while supervision grows more fluid. Because updates flow constantly, patterns in everyday tasks emerge sooner rather than later. Despite their quiet operation, these tools sharpen awareness across ongoing processes.

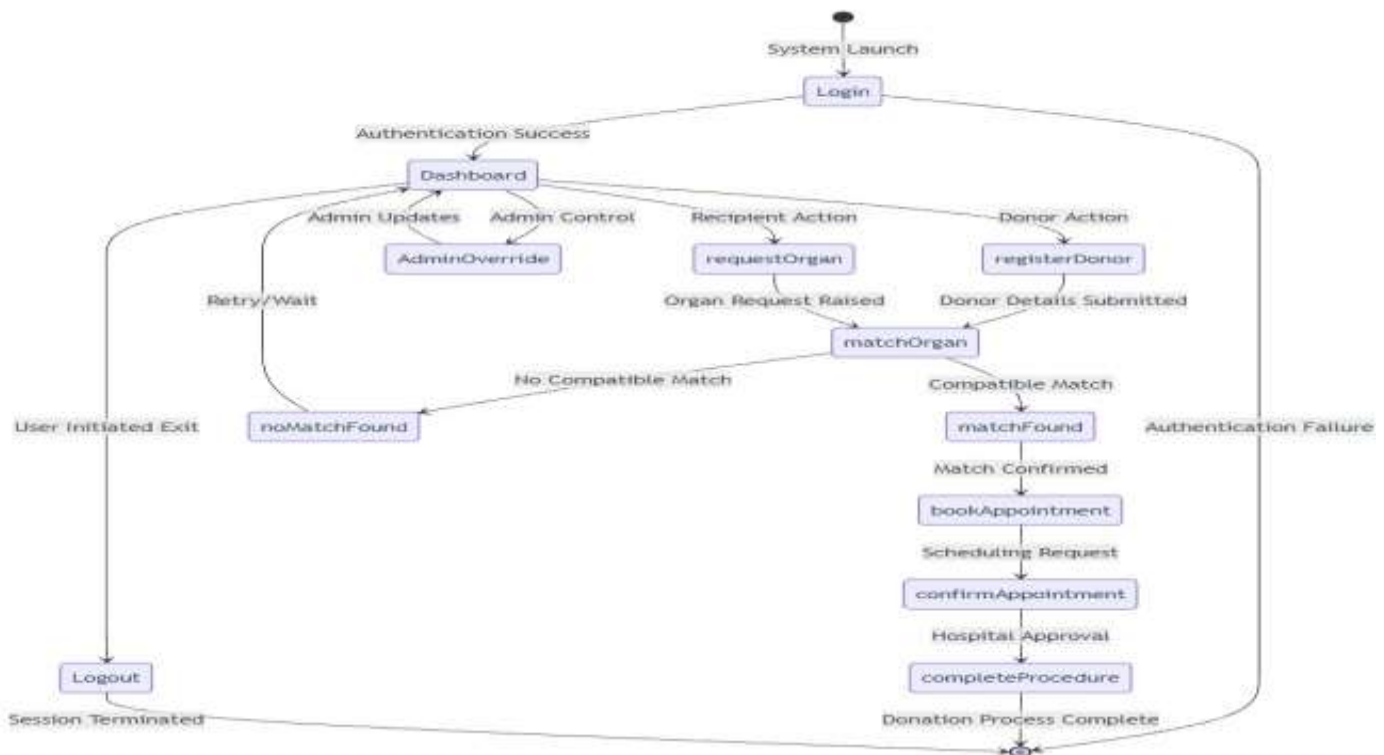
From remote servers, health data moves fast across medical sites - response times shrink when emergencies strike. Information flows without delay because facilities link through digital networks instead of waiting on older methods. Quick access shows up where it matters most: in moments demanding immediate decisions.

Later expansion could include mobile apps, alongside integration into national health networks.

Over time, smarter matching grows more achievable. As fresh data arrives, these systems adjust their responses. When predictive models guide choices, efficiency begins to rise. With each advance in technology, so too do methods for allocating organs shift forward. Room opens up for advanced artificial intelligence tools to reshape distribution approaches.

#### 6. Process of System Flowchart

Starting up triggers the MeDiQ workflow, followed by a login step that checks user identity for correct permissions. Access confirmed, the interface shifts to a main screen shaped around each person's role - admin, donor, or recipient. Admins gain tools for high-level adjustments; those waiting receive options to ask for organs. People offering organs use forms to share health information needed for pairing. When both request and profile exist, analysis kicks off, guided strictly by clinical rules set ahead of time. Should no appropriate match appear, the user receives notification - retry options or a wait for later openings might follow. When a fitting match emerges, steps shift toward finalizing it. Confirmation triggers appointment setup, then timing gets arranged, with hospital sign-off required before moving ahead. Approval leads directly to transplant execution, closing the entire sequence. Meanwhile, failed verification blocks entry, sending the individual elsewhere instead. Exiting at any point remains possible, resulting in disconnection and session end. Each phase, starting from access through organ transfer, unfolds in order, kept safe and streamlined throughout



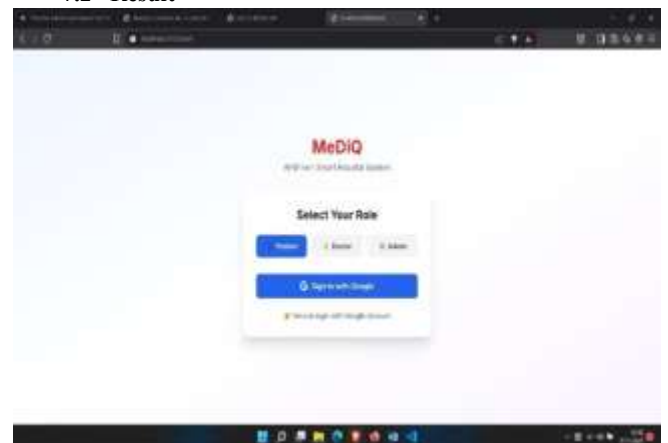
6.1 Flow Chart

## 7. System Overview Working

### 7.1 System Overview

Starting from the top, the MeDiQ system runs on separate but connected modules that exchange data using API links, keeping the organ donation chain protected and smooth. Moving into operation, users - donors, patients, medical teams - interact through screens designed for sign-ups, logging in, asking for organs, or scheduling visits; each step sends signals to internal systems. Instead of proceeding directly, every incoming request passes through an identity checker that confirms who is allowed what, storing personal details safely within encrypted storage. Only after clearance does information flow to the organ tracking unit, updating live status reports on which organs are present and ready. Once processed, the information feeds into an algorithm-driven matching system that weighs factors including blood compatibility, required organ, along with patient condition severity - prioritizing optimal pairings while logging outcomes within a unified repository. Following identification of a viable pairing, the booking component arranges surgical timelines by aligning availability and preventing overlaps, supporting coordination across recipients and clinical teams. In parallel, alert mechanisms activate automatically, delivering instant updates on donor links and scheduled operations via connected channels like SMS or electronic mail. Anchoring this sequence sits a central data hub, continuously refreshing essential records so every unit communicates in alignment, preserving precision, protection, and steady performance from start to finish.

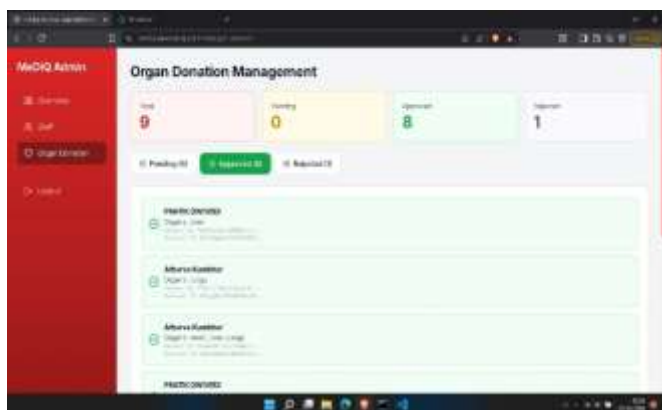
### 7.2 Result



#### 7.2.1 Role Based Login Access



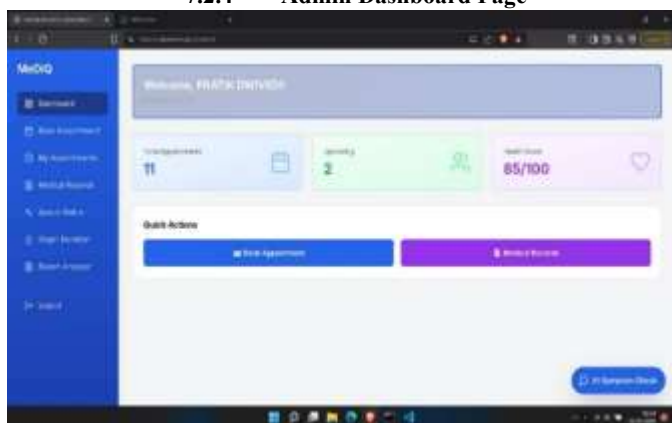
#### 7.2.2 Organ Donation Request Page



7.2.3 Organ Donation Management



7.2.4 Admin Dashboard Page



7.2.5 Patient Dashboard Page

## 8. INNOVATIVENESS IN SOLUTION

- **Intelligent Donor-Recipient Matching:** Starting with patient needs, a smart algorithm checks organ type alongside blood type, urgency, and distance. Because it learns from data, matching happens faster without constant human oversight. One result is fewer delays when time matters most. Instead of guesswork, decisions rely on consistent patterns found in real cases. What changes is how quickly suitable pairs are spotted. Efficiency grows while errors drop behind the scenes.
- **End-to-End Digital Workflow:** Starting from donor sign-up through to surgery coordination, MeDiQ handles every phase digitally. With automation replacing forms, time lost in processing shrinks noticeably. Speed improves - so does accuracy - as manual steps fade out. Efficiency rises when tasks flow seamlessly from one stage to the next.
- **Centralized Multi-Hospital Coordination:** One hospital links to others using shared digital tools. Because of this setup, updates move fast when transplants are time-sensitive. Information flows between medical centers without delays. Teams respond quicker due to live access to patient and donor details. Decisions happen faster since everyone sees the same records. When organs become

available, matching improves across locations. Authorities oversee cases smoothly thanks to connected workflows.

- **Secure Medical Data Management:** Because health information needs strong protection, secure handling methods keep personal details private through restricted entry systems. Unauthorized users cannot reach these files due to tight authorization checks that guard each point of access. Patient trust stays intact when records remain accurate and unchanged over time. Protection does not rely on a single method but combines verification layers throughout the process.
- **Transparent Organ Allocation Process:** With clear tracking at every step, the platform logs each part of organ donation digitally. Because of this, everyone involved - including patients and medical teams - can see how decisions unfold. Traceability grows stronger when updates appear in real time. Trust builds naturally under such visibility, especially for donor families. Responsibility becomes clearer when actions leave a record. Healthcare regulators find oversight more straightforward as well. What results is a flow of information that stays open, without gaps.
- **Automated Notification and Tracking:** Alerts pop up the moment a user's registration changes, keeping everyone informed without delay. When appointment times shift, messages arrive instantly through digital channels. Progress in transplant steps triggers automatic follow-ups for each participant. Information flows faster now, cutting down on guesswork. Fewer questions arise because updates happen continuously. Clarity grows when details move seamlessly between systems.

## 9. CONCLUSION

Starting fresh, the **MeDiQ – Smart Organ Donation Platform** reshapes how organ donation works - by weaving together artificial intelligence, blockchain, machine learning, and cloud computing into one clear, protected system. Instead of relying on outdated methods, it sidesteps slow paperwork, human error, poor timing, and hidden delays common in older models. Because every step runs on verified data, trust grows naturally across participants, cutting manipulation risks while boosting speed. Rather than patching broken parts, the design rebuilds fairness from the ground up through automation and unchangeable records. With live updates built in, responsibility becomes visible at each stage, turning complexity into something simpler, safer, more reliable.

Because it uses artificial intelligence along with machine learning, MeDiQ studies past donation records to forecast organ needs while evaluating how well donors match recipients. Thanks to predictive models, doctors gain insights that support timely choices, reducing discarded organs and raising chances of successful transplants. With blockchain included, information stays accurate, unchangeable, and confirmed across multiple points, removing risks of tampering or illegal trade. From the moment someone registers as a donor until an organ is transplanted, each step gets recorded safely - visible, trackable, checked - and builds confidence through openness.

Now imagine a system that grows easily because it uses cloud technology, supporting teamwork between hospitals, organ donation centers, and public authorities. Built alongside live data displays, the setup makes tracking organ movement, checking ethics rules, and measuring results happen without delays. With interfaces shaped around users and smart tools handling routine tasks, doctors spend less time filling forms. Attention shifts where it matters - toward choices that affect patient outcomes directly

## 10. FUTURE SCOPE

Digitization meets automation within MeDiQ, reshaping how organ donation and transplant operations unfold. Though today's version boosts clarity and speed, room remains to grow beyond present

limits. Improvements could emerge not just from tech upgrades but also through deeper integration across medical networks. Progress might come less from big leaps and more from steady refinements over time. Future versions may rely on feedback loops once unseen in similar platforms. Evolution here does not demand revolution - small shifts often bring lasting change.

### 1. Connecting to national health systems

Later on, MeDiQ might link up with state-run health networks, forming one shared system for tracking organ donations. Hospitals in separate areas could then exchange updates instantly - making it easier to match donors and patients more quickly over wider groups of people.

### 2. Blockchain technology improves transparency

With blockchain, organ donation details stay safe and locked once entered. From signing up as a donor to the transplant itself, each step shows clearly on the system. Because changes cannot happen after entry, people - patients, medical centers, officials - can feel more confident in the process.

### 3. Smart computers that guess what might happen next

Improving today's AI-driven matching process might come through adding prediction tools. Because past records offer clues, such systems could gauge how well a transplant may go - factoring in healing speed and complications. With that insight, medical teams gain clearer direction when choosing paths forward.

### 4. Supports multiple languages

Starting with simplicity, offering various languages on MeDiQ opens doors for wider access across regions. Not limited by one tongue, the system reaches those uneasy with English. Because communication flows better, involvement in organ donation may grow naturally. Ending here, inclusion becomes a quiet result of smart design.

### 5. Connecting With Wearable Health Tech

By linking to wearables such as smartwatches or medical sensors, the platform gains access to real-time patient vitals. Because streams of physiological information flow constantly, comparisons between donors and recipients grow more precise over time. Following surgery, these inputs allow closer observation of recovery patterns without frequent hospital visits. Though small, each data point adds context that static records cannot capture.

### 6. Automatic emergency response system

A sudden alert might trigger when the software spots someone in serious danger. When this happens, nearby clinics receive updates without delay through automated signals. Hospitals could respond faster because warnings arrive before ambulances do. Life-saving steps often begin earlier thanks to early detection by the tool. Speed improves not just due to tech but also smoother coordination it enables.

### 7. Global Expansion of Organ Donation Networks

Later on, MeDiQ might extend past country lines through links with global organ donation networks. When local options fall short - especially in urgent or uncommon situations - this connection could enable organs to move across borders. The system gains reach when tied to broader groups working internationally.

### 8. Data Analytics In Healthcare Planning

With detailed data views, the system shows patterns in giving, organ needs, and how well transplants work. Because of this visibility, medical centers and public agencies adjust outreach efforts while refining health strategies.

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