E-Namecard: Design Thinking Process

City Developments Limited (CDL)

Project Overview

Project Description: E-Namecard allows City Developments Limited's staff to share QR code and save calling card information on their contacts using the CityNexus mobile app.

Technologies Used: Figma, Invision, Sketch, Confluence, Jira, HTML, CSS, Javascript, IOS, Android, Java, Agile, SQL

Period: Oct 2023 - Nov 2023

Position/Role: UX UI Designer / Tester

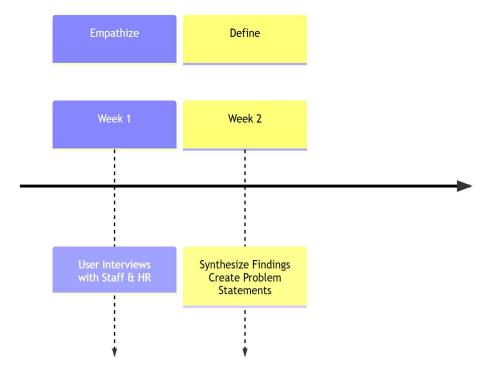
Services Provided: User research, gather requirements, create wireframes, user flows,

prototyping, style guide and user testing

Project Size: 8 team members

Accomplishments: Reducing cost for printing business cards, environment friendly

Design Thinking Timeline: E-Namecard Project



1. **Q** EMPATHIZE

User Research Activities:

- Staff interviews on current contact sharing pain points
- HR/Administrator workshops on cost analysis
- Visitor feedback collection
- Physical card usage analysis

Key Findings:

- High printing costs for business cards
- Environmental waste concerns
- Inconvenience of carrying physical cards
- Manual contact entry errors

2. **©** DEFINE

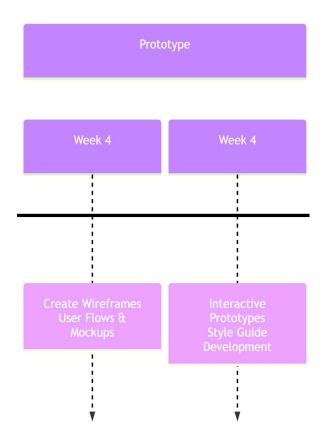
Problem Statements:

- "CDL staff need a quick, reliable, and professional way to share contact information digitally"
- "The company needs to reduce operational costs while maintaining brand consistency"

3. PIDEATE

Solution Concepts:

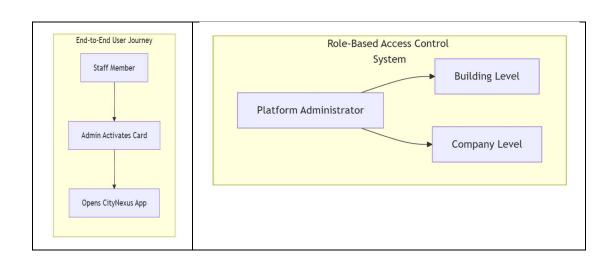
- QR code integration within existing CityNexus app
- Role-based administrative control system
- Three-step user flow: SHOW \rightarrow SCAN \rightarrow VIEW
- Permission matrix for different company roles

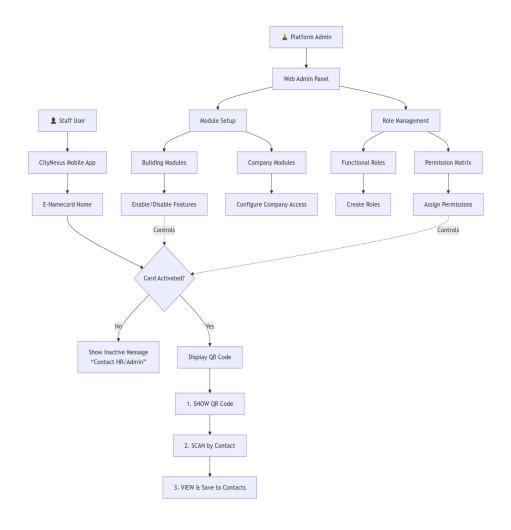


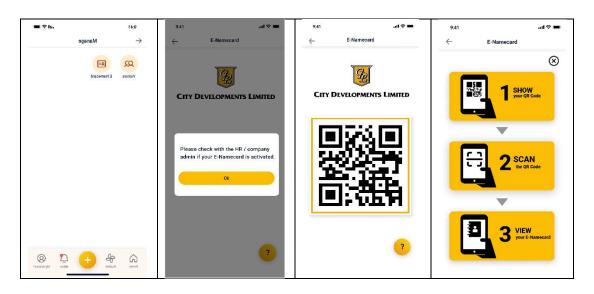
4. 🛠 PROTOTYPE

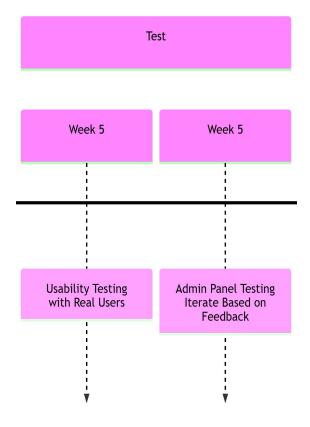
Artifacts Created:

- User flow diagrams
- Low-fidelity wireframes
- Interactive prototypes (Figma/InVision)
- Style guide and design system
- Admin panel mockups





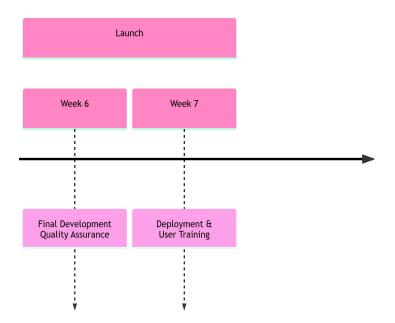




5. 🥕 TEST

Validation Activities:

- Usability testing with CDL staff
- Admin panel testing with HR/IT teams
- Iterative design improvements
- Error state validation



System Architecture

User Roles & Permissions

End Users:

- CDL Staff Members
- Building Visitors/Tenants

Administrators:

- Platform Administrators
- HR Managers
- Company Admins

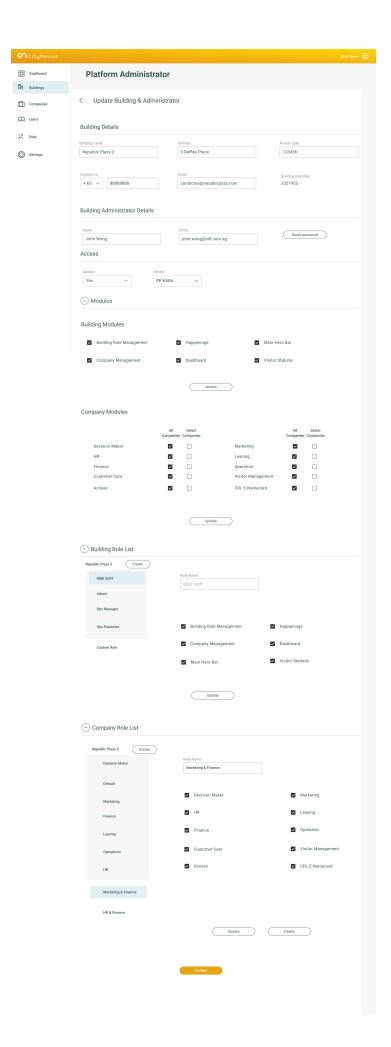
Core Components

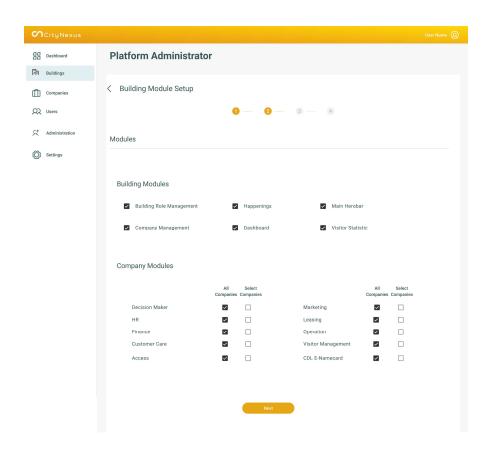
Mobile App (CityNexus):

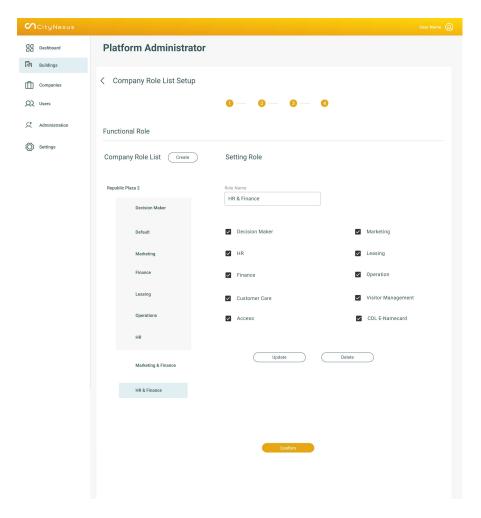
- E-Namecard tab integration
- QR code display interface
- Contact saving functionality
- Status checking (active/inactive)

Web Admin Panel:

- Module management system
- Role-based access control
- Company permission matrix
- User activation controls







User Flows

Staff Member Flow

- 1. **Open** CityNexus mobile app
- 2. Navigate to E-Namecard tab
- 3. Check activation status
- 4. **Display** QR code (if active)
- 5. **Share** with contact
- 6. **Contact scans** and saves information

Administrator Flow

- 1. **Login** to admin panel
- 2. Configure building modules
- 3. **Setup** company roles
- 4. **Assign** permissions
- 5. **Activate** E-Namecard for users
- 6. **Monitor** usage statistics

Key Screens & Features

Mobile App Screens

- 1. **E-Namecard Home** Main access point in app navigation
- 2. **QR Display** Clear SHOW→SCAN→VIEW instructions
- 3. Inactive State Guidance to contact HR/Admin
- 4. **Brand Splash** CDL branding reinforcement

Admin Panel Features

- 1. Module Toggle System Enable/disable features per building
- 2. **Role Management** Define functional roles and permissions
- 3. Company Access Matrix Granular control per company/role
- 4. **Building Assignment** Role assignment to specific locations

Technical Implementation

Permission Matrix Structure

Building Level Modules:

- Building Role Management
- Happenings
- Main Herobar
- Company Management
- Dashboard
- Visitor Statistic

Company Role Access:

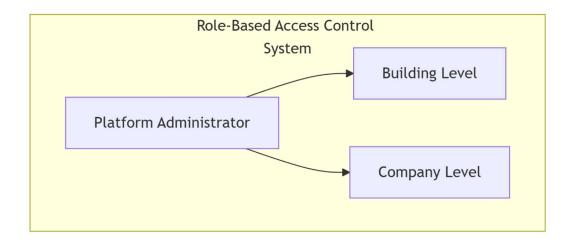
Decision Maker: All Companies

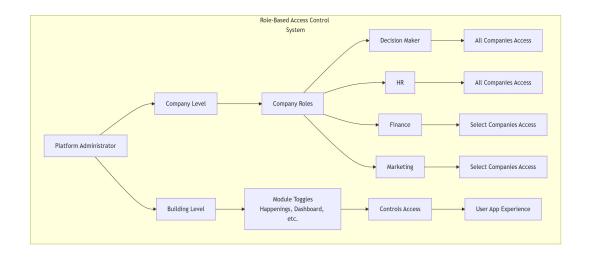
• HR: All Companies

• Finance: Select Companies

Customer Care: All Companies

• Access: All Companies





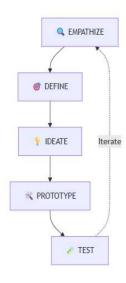
Success Metrics

Quantitative Measures

- Reduction in business card printing costs
- Number of digital card shares per month
- User activation rates
- Admin configuration time reduction

Qualitative Benefits

- Improved user convenience
- Enhanced brand consistency
- Environmental impact reduction
- Better contact management



Project Timeline

Week 1-2: Empathize & Define

- User research and requirement gathering
- Problem statement formulation

Week 3-4: Ideate & Prototype

- Solution brainstorming and wireframing
- Interactive prototype development

Week 5-6: Test & Iterate

• Usability testing sessions

• Design refinements and improvements

Week 7: Launch Preparation

- Final quality assurance
- User training materials
- Deployment planning

Conclusion

The E-Namecard project successfully transformed traditional business card usage into a digital, efficient, and environmentally friendly solution. Through careful application of the Design Thinking process, the team delivered a user-centric solution that addresses both staff convenience and organizational cost-saving objectives while maintaining robust administrative controls essential for enterprise deployment.

Document Prepared By: UX/UI Design Team

Date: December 2023

Project Status: Completed