

APP FEATURES & COMMUNICATION



- QR codes on campus and city bins linking to the app
- Multilingual guides for diverse student and resident populations
- Push notifications for recycling tips and pickup schedules

- Visual sorting guides in the app
- Gamification (points/rewards for correct recycling)
- AI chatbot for quick recycling questions

- Location-based rules for campus vs. city neighborhoods
- Short instructional videos for students and residents
- Personalized reminders based on user habits
- **!!Dark mode for accessibility!!**

TECHNOLOGY INTEGRATION



- Smart bin sensors that detect incorrect items (Possibly)
- Barcode scanning for recyclables
- AR feature to show correct sorting in real time
- NFC tags on bins for quick app access (limited numbers, expensive)

COMMUNITY ENGAGEMENT



- Campus and city recycling challenges
- Leaderboards for dorms and neighborhoods

- Share tips and success stories in the app
- Monthly sustainability events promoted through the app
- Peer-to-peer recycling tips forum

POLICY & STANDARDIZATION



- Database of local recycling rules for campus and city
- Automatic updates when guidelines change
- Partnerships with university sustainability office and city waste department
- Compliance tracking for dorms and apartments (if possible)

PHYSICAL DESIGN & CONVENIENCE



- Color-coded bin labels matching app visuals
- Compact printed guides for offline use in dorms/apartments
- Recycling stations with clear signage near high-traffic areas