Here’s a proposed mobile‑app wireframe and page‑by‑page component breakdown for your PMI‑Kenya Tree‑Planting Tracker, built in Microsoft Power Apps with Azure Maps integration. I’ve baked in your green‑first color palette, PMI‑Kenya logo, and tree‑planting motifs throughout.

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## 1. Global App Settings & Theme

\* \*\*Color palette\*\*

\* \*\*Primary:\*\* Forest Green (#2E7D32)

\* \*\*Secondary accents\*\* from the PMI‑Kenya logo:

\* Orange‑Red (#F15A29)

\* Sky Blue (#00AEEF)

\* Purple (#662D91)

\* \*\*Neutrals:\*\* White (#FFFFFF) & Charcoal (#333333)

\* \*\*Fonts & Icons\*\*

\* Sans‑serif, clean (e.g. Segoe UI)

\* Icons: tree, leaf, map pin from Fluent UI

\* \*\*Header bar (global)\*\*

\* Left: PMI‑Kenya logo (black “P,” orange bow tie, blue “I,” purple Kenya map)

\* Center: Screen title

\* Right: Hamburger menu or user avatar

\* \*\*Footer (global)\*\*

\* Tab bar: Home ▸ Add ▸ Map ▸ Reports ▸ Profile

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## 2. Page-by-Page Structure

### A. \*\*Splash & Sign‑In\*\*

1. \*\*Splash screen\*\* (2 s)

\* Full‑screen semi‑transparent tree canopy overlay

\* PMI‑Kenya logo centered

2. \*\*Sign‑In / Register\*\*

\* \*\*Components\*\*:

\* Form (Dataverse “Users” table) for Email / Phone + Password

\* “Sign In” button

\* “Register” link to onboarding

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### B. \*\*Home Dashboard\*\*

\*\*Purpose:\*\* Quick stats and shortcuts.

\* \*\*Header\*\* “Dashboard”

\* \*\*Components\*\*:

\* \*\*KPI cards\*\* (horizontally scrollable gallery):

\* Trees planted (total)

\* Active projects

\* Pending verifications

\* \*\*Quick Actions\*\* (icon buttons):

\* Add new planting

\* Upload growth update

\* View map

\* \*\*Latest Activity feed\*\* (vertical gallery):

\* “You logged 12 trees in Kisumu”

\* “3 photos pending approval”

\*\*Implementation in Power Apps\*\*:

\* Gallery control bound to Dataverse views, with OnSelect navigating to detail or forms.

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### C. \*\*Add New Tree\*\*

\*\*Purpose:\*\* Log a planting event

\* \*\*Header\*\* “Log Tree”

\* \*\*Components\*\* (Form control):

1. \*\*Species\*\* dropdown (Choices from “Species” table)

2. \*\*Quantity\*\* numeric input

3. \*\*Date planted\*\* date picker (default = Today)

4. \*\*Planting team\*\* text input or lookup

5. \*\*Location\*\*

\* \*\*Azure Maps location picker\*\*: map embed + “Use my GPS” button

6. \*\*Photo upload\*\* (Attach control)

7. \*\*Save\*\* & \*\*Cancel\*\* buttons

\*\*Implementation\*\*:

\* Use the Power Apps \*\*Azure Maps\*\* component (from AppSource).

\* On save: Patch to Dataverse “TreePlantings” entity with GeoLocation field.

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### D. \*\*Map View\*\*

\*\*Purpose:\*\* Visualize all plantings

\* \*\*Header\*\* “Map”

\* \*\*Components\*\*:

\* \*\*Azure Maps map\*\* full‑screen with clustered pins

\* \*\*Filter pane\*\* (slide‑in): by date, species, project

\* \*\*Info pop‑up\*\* on pin tap: thumbnail, species name, date, “View Details” link

\*\*Implementation\*\*:

\* Azure Maps key stored in Azure Key Vault; consumed via Power Apps connection.

\* MapPins bound to TreePlantings table via Data Source.

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### E. \*\*Tree Detail & Growth Updates\*\*

\*\*Purpose:\*\* See one planting’s history

\* \*\*Header\*\* species name

\* \*\*Components\*\*:

\* \*\*Hero image\*\* (latest photo)

\* \*\*Details card\*\*: date, quantity, team

\* \*\*Growth timeline\*\* (vertical timeline gallery):

\* date + photo + notes

\* \*\*Add Update\*\* floating action button

\*\*Implementation\*\*:

\* Gallery control filtered by current record’s ID.

\* “Add Update” navigates to a lightweight version of the Add form (only photo + notes).

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### F. \*\*Reports & Carbon Credits\*\*

\*\*Purpose:\*\* Aggregate reporting

\* \*\*Header\*\* “Reports”

\* \*\*Components\*\*:

\* \*\*Toggle\*\*: Summary vs. Detailed

\* \*\*Summary view\*\*: KPI cards (Total trees, Estimated CO₂ sequestered)

\* \*\*Detailed view\*\*: Data table (editable Power Apps Data Table)

\* \*\*Export\*\* button (CSV / Excel)

\* \*\*Power BI embed\*\* (optional): advanced dashboards

\*\*Implementation\*\*:

\* Calculated field in Dataverse: CarbonEstimate = Quantity × speciesFactor.

\* Power BI tile via Power Apps “Power BI” control.

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### G. \*\*User Profile & Settings\*\*

\*\*Purpose:\*\* Manage user account & app preferences

\* \*\*Header\*\* “Profile”

\* \*\*Components\*\*:

\* \*\*Profile card\*\*: avatar, name, email

\* \*\*Preferences\*\*:

\* Notification toggles (e.g. “Remind me to update growth”)

\* Default map location

\* \*\*About\*\*: version, organization info + logo

\* \*\*Sign Out\*\* button

\*\*Implementation\*\*:

\* Patch back to Dataverse “Users” table.

\* Use the built‑in Power Apps User() object for avatar & name.

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## 3. UI & Branding Notes

\* \*\*PMI‑Kenya logo\*\* sits in every header; use a small drop‑shadow to lift it off a white background.

\* \*\*Tree motif\*\*: subtle leaf‑pattern background on form pages (60 % opacity).

\* \*\*Buttons & accents\*\*: Forest Green fill, white text; use orange‑red for “Cancel” or “Delete” actions.

\* \*\*Typography\*\*: headings in dark charcoal, body text in black, links/buttons in PMI‑blue.

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## 4. Azure Maps & Power Platform Integration

1. \*\*Azure Maps Setup\*\*

\* Create Azure Maps account → copy subscription key into Azure Key Vault.

\* In Power Apps: Add Connection “Azure Maps” → reference key via “Key Vault” connector.

2. \*\*Dataverse Tables\*\*

\* TreePlantings (GeoLocation, Species, Quantity, Date, Team, Photos)

\* GrowthUpdates (lookup → TreePlanting, Date, Photo, Notes)

\* Species (Name, CarbonFactor)

3. \*\*Power Apps\*\*

\* Use \*\*Canvas\*\* app (phone layout)

\* Leverage \*\*Form\*\*, \*\*Gallery\*\*, \*\*Data Table\*\*, and \*\*Custom connector\*\* (for Key Vault)

\* Implement role‑based security via Dataverse security roles.

4. \*\*Optional Extensions\*\*

\* \*\*Power Automate\*\* flow to send weekly summary emails.

\* \*\*Power BI\*\* workspace for rich, stakeholder dashboards.

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With this page structure, component breakdown, and integration plan, you’ll be able to rapidly spin up a low‑code tree‑tracking app that’s fully aligned with PMI‑Kenya’s brand—and leverages the mapping power of Azure Maps to geo‑visualize your reforestation impact.