From survey to mobile app

Role-based work breakdown, dependencies, acceptance criteria and an indicative delivery schedule.

Prepared 22 October 2026. Planning baseline derived from the supplied form; estimates are provisional person-days, not a fixed-price quote. This is a design and planning package, not a production application.

Outcome and scope

Deliver an English mobile survey covering all 40 source fields, every source option, five conditional follow-ups, the original declaration and both signatures. Provide review/edit and a confirmed submission outcome.

Source fields are baseline requirements. Login, local drafts, offline synchronisation, backend, roles, exports and release monitoring are proposed implementation scope and need explicit prioritisation. Document uploads, document numbers, GPS, photos, medical advice, eligibility decisions and scheme applications are outside the form and excluded unless separately approved.

Role-based work breakdown

PM1 | Project manager | Discovery & scope

Effort: 2-3 person-days. Dependencies: None.

- 1.1 Walk through the form with field staff.

- 1.2 confirm population, languages, devices and connectivity.

- 1.3 agree MVP, exclusions and measurable pilot goals..

Deliverable / acceptance: Approved scope, user journey and stakeholder list; all source fields accounted for.

PM2 | Project manager | Resolve source decisions

Effort: 2-3 person-days. Dependencies: PM1.

- 2.1 Confirm duplicate numbering and disability labels.

- 2.2 decide selection limits and mandatory fields.

- 2.3 approve age/DOB, income and adult applicability.

- 2.4 approve declaration and signature process..

Deliverable / acceptance: Signed field register and decision log; no unresolved launch-blocking rules.

PM3 | Project manager | Plan & control delivery

Effort: 3-5 across project person-days. Dependencies: PM1.

- 3.1 Build backlog and milestones.

- 3.2 assign owners.

- 3.3 maintain risks, dependencies and change log.

- 3.4 run sprint demos and acceptance reviews..

Deliverable / acceptance: Prioritised backlog, estimates and weekly review cadence.

PM4 | Project manager | Data governance & operations

Effort: 2-3 person-days. Dependencies: PM2.

- 4.1 Identify data owner and permitted roles.

- 4.2 agree collection, access, retention, deletion and export needs.

- 4.3 approve hosting and operational support.

- 4.4 obtain appropriate organisational review..

Deliverable / acceptance: Approved data handling and support plan covering health, caste and signatures.

PM5 | Project manager | Pilot & release coordination

Effort: 3-4 person-days. Dependencies: QA4.

- 5.1 Recruit representative field users.

- 5.2 prepare training.

- 5.3 define pilot entry/exit.

- 5.4 triage feedback.

- 5.5 secure business sign-off and handover..

Deliverable / acceptance: Pilot acceptance, release checklist and named support owner.

DS1 | Designer | Research & information architecture

Effort: 2-3 person-days. Dependencies: PM1.

- 1.1 Interview field workers.

- 1.2 map survey sequence.

- 1.3 organise all F01-F40.

- 1.4 map conditional branches and review paths..

Deliverable / acceptance: Complete flow with every field and both signatures.

DS2 | Designer | Visual design & components

Effort: 3-4 person-days. Dependencies: DS1.

- 2.1 Confirm brand.

- 2.2 specify typography, spacing and touch controls.

- 2.3 design selectors, checkboxes, signatures and errors.

- 2.4 define responsive layouts..

Deliverable / acceptance: Approved screen designs and reusable component specifications.

DS3 | Designer | Full interaction states

Effort: 2-3 person-days. Dependencies: DS2, PM2.

- 3.1 Design blank/filled/error forms.

- 3.2 parent answer changes.

- 3.3 drafts and resume.

- 3.4 offline/sync failures if adopted.

- 3.5 review, edit and receipt.

- 3.6 signature clear/redraw and alternative..

Deliverable / acceptance: Annotated prototype includes validation, branching and failure recovery.

DS4 | Designer | Accessibility & handoff

Effort: 2-3 person-days. Dependencies: DS3.

- 4.1 Check screen-reader labels and focus order.

- 4.2 test large text and contrast.

- 4.3 test with field users.

- 4.4 deliver assets, copy and specifications..

Deliverable / acceptance: Usability issues resolved; developer-ready handoff and accessibility checklist.

AD1 | App developer | Architecture & project setup

Effort: 3-4 person-days. Dependencies: PM2, PM4, DS1.

- 1.1 Select platform after device review.

- 1.2 establish environments and build pipeline.

- 1.3 define survey schema and API contract.

- 1.4 identify backend responsibility..

Deliverable / acceptance: Build runs on target devices; architecture and data model reviewed.

AD2 | App developer | Survey foundation

Effort: 4-6 person-days. Dependencies: AD1, DS2.

- 2.1 Implement navigation.

- 2.2 model all F01-F40.

- 2.3 build inputs and selectors.

- 2.4 implement review/edit.

- 2.5 preserve entries on navigation..

Deliverable / acceptance: All fields and options implemented; no lost entries when moving between steps.

AD3 | App developer | Rules & validation

Effort: 3-4 person-days. Dependencies: AD2, PM2.

- 3.1 Add conditional fields.

- 3.2 handle parent changes.

- 3.3 implement approved required rules.

- 3.4 check dates, ages, phone and income.

- 3.5 cover class/adult applicability as approved..

Deliverable / acceptance: Approved rules pass unit/component tests; hidden stale answers are excluded or explicitly resolved.

AD4 | App developer | Signatures & finalisation

Effort: 2-3 person-days. Dependencies: AD2, PM2, DS3.

- 4.1 Capture two signatures.

- 4.2 support clear/redraw.

- 4.3 implement agreed accessible alternative.

- 4.4 bind declaration to survey version.

- 4.5 implement submission result..

Deliverable / acceptance: Both signatures are associated with the correct survey and declaration version.

AD5 | App developer + backend owner | Storage, API & synchronisation

Effort: 6-9 person-days. Dependencies: AD1, PM4.

- 5.1 Build save/read/update endpoints.

- 5.2 implement drafts and secure local storage.

- 5.3 queue/retry offline submissions if adopted.

- 5.4 prevent duplicate submits.

- 5.5 define conflict handling and receipts..

Deliverable / acceptance: Saved data survives app restart; retry is idempotent; failures are recoverable. Backend ownership must be assigned.

AD6 | App developer + backend owner | Access & data protection

Effort: 3-5 person-days. Dependencies: AD1, PM4.

- 6.1 Implement approved login and permissions.

- 6.2 protect transport/storage.

- 6.3 remove sensitive logs.

- 6.4 apply retention/deletion.

- 6.5 implement agreed export with access checks..

Deliverable / acceptance: Unauthorised access fails; sensitive fields and signatures do not appear in logs or unapproved exports.

AD7 | App developer | Release & handover

Effort: 2-3 person-days. Dependencies: QA4, PM5.

- 7.1 Fix pilot defects.

- 7.2 prepare release builds.

- 7.3 configure monitoring without sensitive payloads.

- 7.4 document support and rollback.

- 7.5 distribute through approved channel..

Deliverable / acceptance: Accepted production build, release notes and operational handover.

QA1 | Testing team | Test strategy & traceability

Effort: 2-3 person-days. Dependencies: PM2, DS1.

- 1.1 Map F01-F40 to cases.
- 1.2 define device/OS matrix.
- 1.3 prepare synthetic data.
- 1.4 agree severity, acceptance and pilot exit criteria..

Deliverable / acceptance: Approved test plan with every field, option and condition mapped.

QA2 | Testing team | Functional & rule testing

Effort: 4-5 person-days. Dependencies: AD2-AD4.

- 2.1 Test inputs and every option.
- 2.2 verify all five conditional branches.
- 2.3 test Back/Continue and review edits.
- 2.4 test both signatures.
- 2.5 check all approved validation boundaries..

Deliverable / acceptance: All mandatory cases pass; no missing fields, swapped mappings or lost answers.

QA3 | Testing team | Reliability, accessibility & access

Effort: 4-6 person-days. Dependencies: AD5, AD6, DS4.

- 3.1 Test interruption/restart.
- 3.2 offline/retry/duplicates if adopted.
- 3.3 test permissions and sensitive logs.
- 3.4 screen readers, large text and contrast.
- 3.5 device performance and slow networks..

Deliverable / acceptance: Critical access, data loss and accessibility defects resolved; target devices pass.

QA4 | Testing team | Regression, pilot & release evidence

Effort: 3-4 person-days. Dependencies: QA2, QA3.

- 4.1 Run end-to-end regression.

- 4.2 support field pilot.

- 4.3 retest defects.

- 4.4 validate exported data if in scope.

- 4.5 publish test summary and recommend release readiness..

Deliverable / acceptance: No open critical/high defects; agreed lower-severity exceptions recorded; business acceptance supported by evidence.

Indicative schedule and gates

Assumption: one PM (part time), one designer, one app developer, one named backend owner and one tester. A cross-platform mobile build is assumed for estimating only; choose the platform after confirming devices. Backend effort is included in the developer stream estimates, not an extra allowance. Design and QA overlap development.

Window	Work and exit gate
Week 1	Discovery, field decisions and data handling. Gate: approve scope and field register.
Week 2	Detailed design, usability checks, architecture and test plan. Gate: approved design and API contract.
Weeks 3-5	Build survey, signatures, draft/API and any approved offline flow; continuous QA. Gate: feature-complete pilot candidate.
Week 6	Accessibility, access, reliability and regression. Gate: no critical/high defects.
Week 7	Field pilot, fixes and training. Gate: programme owner acceptance.
Week 8	Contingency, release and operational handover. Gate: supported release.

Indicative effort by stream: PM 12-18 days; design 9-13; app/backend 23-34; testing 13-18; total 57-83 person-days before contingency. Reserve 15-20% contingency. Calendar duration depends on staffing and stakeholder turnaround; the eight-week outline is a planning target. If one developer owns both client and backend, allow roughly 9-11 weeks or reduce approved scope, subject to re-estimation.

Quality and acceptance examples

- Confirm disability options exactly match the approved register, including Other and its follow-up.

- Test F12 Yes -> enter F13 -> change to No; no stale hidden answer is silently submitted. Repeat for F19/F20, F22/F23 and F24/F25.

- Test both health and family question 14 mappings; they must remain separate fields.

- Age and DOB: future DOB, leap day, unknown DOB and inconsistent entered age follow the approved policy.

- Phone retains leading zeros and +; income accepts the approved units and range.

- Each document checkbox is independent; no document image or number is collected.

- Both signatures can be captured, cleared and redrawn; the agreed accessible alternative is testable.

- Back, Continue, review and edit preserve entries. If persistence is adopted, app termination and resume preserve approved drafts securely.

- If offline submission is adopted, retry after timeout creates one server record and produces a stable receipt.

- Test screen-reader reading order and labels, large text without clipping, and approximately 44-48 logical-pixel touch targets on target devices.

- Production release requires approved access controls and data handling for health, caste, contact details and signatures.

Risks and decisions

- The source is a discussion draft. Resolve the abbreviation MI, duplicate numbering, multi-select rules and applicability before coding.

- Unknown ages, inability to sign and unanswered questions need inclusive recording rules. Do not invent forced answers.

- Poor field connectivity may make offline storage essential; validate this in discovery because it affects architecture and estimates.

- A mobile developer alone does not establish a production backend. Assign backend, hosting and support ownership before committing a date.

- Sensitive data collection requires an approved organisational process; this package does not determine legal requirements.

- Review whether family-member signing needs relationship/name fields. These are not in the source and require a scope change.

Traceability and handover

Use Field_Register.md for F01-F40, source references and options. The mockup screens follow the same IDs. The PDF translation retains source grouping and numbering; the mobile concept reorganises the questions for a shorter, clearer flow.

Handover pack: approved field register and decision log, final designs and states, backlog, API/schema, source code/build instructions, test evidence, pilot sign-off, training material and support/retention instructions.

Field register - complete source coverage

Source reference numbers are preserved, including the duplicate 14. All conditional fields appear in the design review mockups.

ID / source	English field	Control / visibility
F01 / Header	Survey date	date
F02 / Header	Type of disability	multi
F03 / Header	Other disability - specify	text / if F02 = Other
F04 / 1	Full name	text
F05 / 5	Date of birth	date
F06 / 2	Age (years)	number
F07 / 6	Gender	select
F08 / 3	Full address	textarea
F09 / 4	Contact number	tel
F10 / 7	Caste category	select
F11 / 8	Language	text
F12 / 9	Is there another person with a disability in the family?	radio
F13 / 9 follow-up	If yes, please specify	text / if F12 = Yes
F14 / 13	Annual family income	number
F15 / 14 (family)	Family occupation	text
F16 / 10	Cause of disability	textarea
F17 / 11	Time of onset of disability	select
F18 / 12	Educational qualification	select
F19 / 14 (health)	Does the person have epileptic seizures?	radio
F20 / 15	If yes, does the person take medication?	radio / if F19 = Yes
F21 / 16	Does the person have any other illness?	radio
F22 / 17	Has any other medical treatment been received?	radio
F23 / 17 follow-up	If yes, provide treatment details	textarea / if F22 = Yes
F24 / 18	Has the person received any assistive device?	radio

ID / source	English field	Control / visibility
F25 / 18 follow-up	If yes, name the device	text / if F24 = Yes
F26 / 19	Does the child attend an Anganwadi centre?	radio
F27 / 20	Is the child currently studying at school?	radio
F28 / 21	Class / grade	text
F29 / 22	Is the person undertaking vocational training / a course?	radio
F30 / 23	Has the person received any other education / training?	radio
F31 / Document 1	Disability certificate	check
F32 / Document 2	Caste certificate	check
F33 / Document 3	Bank account details	check
F34 / Document 4	Aadhaar card	check
F35 / Document 5	Ration card	check
F36 / Document 6	Voter identity card	check
F37 / Document 7	Birth certificate	check
F38 / Document 8	Unique Disability ID (UDID)	check
F39 / Declaration	Signature of the person with a disability / family member	signature
F40 / Declaration	Field worker’s signature	signature