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TECHNOLOGY PROJECT NAME :TO DO LIST APPLICATION

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TO DO LIST APPLICATION

Phase:3

MVP implementation:

Contants:

1.product setup

2.core features implementation

3.Data storage (local state/Database)

4.Testing core features

5.version control(GitHup)

Option 1: Using Glide Apps (Google Sheets web or mobile app) What You Require:

Steps:

Visit Glide:

Click "Start for Free" and use Google to log in.

Make a Google Sheet:

Create a sheet called "To-Do List" in Google Sheets.

Include columns:

Assignment	Finalized	Due Date
Purchase milk	FALSE	2025-09-25

Link Glide to Google Sheets:

Click on "New App" in Glide.

Choose "From Google Sheet."

Select the sheet for your to-do list.

Personalize Your App:

Glide will create a basic app on its own.

You could:

Include checkboxes for finished

To add new tasks, add forms.

Alter the layout to Calendar, Cards, or List view.

Release Your App:

Press "Publish."

To use the app, share the link or scan the QR code.

Choice **Core Features & How to Implement (No-Code)**

Feature	Description	No-Code Implementation Options
Add Tasks	Input new to-dos	Forms in Glide, Airtable, Notion, Trello cards
Edit / Update Tasks	Modify task title, description, etc.	Editable fields in all no-code tools
Delete Tasks	Remove tasks from the list	"Delete" or remove row/card

Feature	Description	No-Code Implementation Options
Mark as Completed	Checkbox or toggle	Use a checkbox field (e.g., Airtable, Notion)
Due Dates / Reminders	Assign deadlines	Date fields + calendar views (Glide, Airtable)
Filter / Search Tasks	View specific tasks	Views, filters, and search bars
Task Priority	High, Medium, Low	Dropdown/select fields
Categorize Tasks	Group by project or tag	Tags or category fields (Trello lists, Airtable)
Mobile & Web Access	Use from any device	Glide (mobile), Airtable, Notion, Softr
User Authentication *(optional)*	Users log in to manage their tasks	Softr with Airtable, Glide with Google login
Collaboration	Share tasks with others	Share links or multi-user support

Feature	Description	No-Code Implementation Options
Notifications / Reminders *(optional)*	Get reminded about due dates	Use tools like Zapier with Airtable or Notion

Tool-Specific Implementations

1. Glide (Mobile/Web App)

Action	How To Do It
Add Task	Add a form linked to your Google Sheet
Mark Complete	Add a checkbox column
Due Dates	Use a Date Picker in the form
Filter Tasks	Use visibility filters
Priority	Add a choice field for "Low/Med/High"
Collaboration	Share app link
Reminders	Use Glide + Zapier to send notifications

Glide is great for making a **mobile-friendly to-do app** quickly.

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2. Airtable (Web App)

Action	How To Do It
Add/Edit/Delete Task	Editable rows in a base
Mark Complete	Checkbox field
Due Date	Date field with calendar view
Filter/Search	Built-in filters, grouping, search
Priority	Single-select field
Collaboration	Share base or embed in Softr
Reminders	Use Airtable Automations or Zapier

Airtable is great for **power users or small teams** needing custom views.

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3. Notion (Simplest Setup)

Action	How To Do It
Add/Edit/Delete Task	Add a new row to the table
Mark Complete	Checkbox property
Due Date	Date property
Filter Tasks	Use filters on views
Priority	Select field
Collaboration	Share the page
Reminders	Use @reminder in Date property

Notion is best for **personal productivity or small shared teams**.

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4. Trello (Kanban Style)

Action	How To Do It
Add Task	Add a card to a list
Mark Complete	Move card to "Done" list
Due Date	Use due date feature on cards
Filter/Search	Use built-in filters
Priority	Use labels like Red = High

Action	How To Do It
Collaboration	Invite team members
Reminders	Trello sends due date reminders

Trello is great for **visual task management**, especially for teams.

Bonus: Automate with Zapier or Make (Integromat)

You can connect tools like **Airtable**, **Notion**, or **Glide** to automation services like:

- **Zapier** (https://zapier.com)
- **Make (Integromat)** (https://www.make.com)

Examples:

- Send Slack/Email reminder when a task is due
- Add a new Google Calendar event when a task is added
- Notify team when a high-priority task is created

Tool-by-Tool Data Storage Overview

1. Glide (Uses Google Sheets or Glide Tables)

- **Type**: Cloud (Google Sheets or Glide's built-in database)

- **Where Data is Stored**:
  - **Google Sheets** if you connect a sheet
  - **Glide Tables** for faster, app-native storage
- **Sync**: Real-time sync across users/devices
- **Best For**: Shared or mobile-first apps

You can choose to keep it private (local-style) or collaborative (online).

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2. Airtable

- **Type**: Cloud database (similar to spreadsheets but with database features)
- **Where Data is Stored**: Airtable's cloud
- **Sync**: Real-time sync and API access
- **Offline Access**: Limited (not fully offline)
- **Best For**: Structured, collaborative apps with filters and views

Also supports versioning, automations, and real-time collaboration.

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3. Notion

- **Type**: Cloud (with optional offline access)
- **Where Data is Stored**: Notion's cloud servers

- **Sync**: Auto-sync across devices
- **Offline Access**: Yes (with desktop/mobile apps)
- **Best For**: Personal to-do lists, small team notes/tasks

You can work offline and it will sync when you're back online.

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4. Trello

- **Type**: Cloud
- **Where Data is Stored**: Trello servers (owned by Atlassian)
- **Sync**: Automatic
- **Offline Access**: Limited (mobile app has some offline use)
- **Best For**: Visual task management

All tasks (cards) and data live in Trello's cloud.

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5. Softr + Airtable

- **Type**: Cloud (via Airtable)
- **Where Data is Stored**: Airtable database
- **Sync**: Live sync between web app and Airtable

- **Best For**: Web-based apps with user authentication

Useful if you need a live, user-friendly app backed by a real database.

Core Features to Test (No-Code)

Feature	What to Test
Add Task	Can users create a new task?
Edit Task	Can users change task details?
Delete Task	Can users remove tasks without issues?
Mark as Completed	Can users check off tasks and see the update?
Due Date Functionality	Is the due date field working & showing correctly?
Priority/Category Tags	Do dropdowns, labels, or filters work?
Filters & Views	Do views reflect correct filtered tasks?
Sync Across Devices	Is data consistent on phone/tablet/computer?

How to Test in Popular No-Code Tools

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1. Glide (Google Sheets or Glide Tables)

Great for mobile/web apps built without code

Testing Steps:

Action	How To Test
Add Task	Use the "Add" form in preview mode and check if it shows up in the list
Edit Task	Tap on a task → Edit screen → Change title or status
Delete Task	Swipe or tap "Delete" → Confirm deletion in database
Completion	Use checkboxes or toggle buttons
Views	Test visibility rules (e.g., only show incomplete tasks)
Cross-device	Open Glide app on different device/browser and check sync
Automation (optional)	Use Glide Actions (like notifications) and test flow

Test Mode: Use Glide's live preview or share link with test users.

2. Airtable

Structured cloud database for to-do apps

Testing Steps:

Action	How To Test
Add/Edit/Delete Task	Use Grid View to manually test CRUD (Create/Read/Update/Delete) actions
Mark Complete	Check or uncheck the "Completed" box and filter for results
Due Date & Filters	Try Calendar view or custom filters
Priority & Tags	Test single/multi-select fields
Automation Test	Use Airtable Automations (e.g., "When task completed → Send email")
Collaboration	Invite a teammate and test live updates

Airtable includes **run test** feature in its automation editor.

3. Notion

Simple task manager with tables, views, and filters

Testing Steps:

Action	How To Test
Add/Edit/Delete	Add tasks in table, then try editing & deleting
Checkbox Test	Tick the "Done" checkbox — see if filtered views update
Due Dates	Add/change dates and test Calendar view
Views	Switch between Table, Kanban, Calendar — test filters
Offline Sync	Use Notion offline, then reconnect and check for sync issues

No built-in automation test support, but you can manually verify flows.

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4. Trello

Visual Kanban board tool for tasks

Testing Steps:

Action	How To Test
Add Task	Create a new card and confirm it appears in the correct list
Complete Task	Move card to "Done" list
Due Dates	Add/edit due dates and check if notifications/reminders trigger
Labels & Filters	Apply labels and use filter/search to verify behavior
Automation (Butler)	Create a rule (e.g., "If moved to Done → mark complete") and test it

Trello's **Butler Automation** has a preview/test option per rule.

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5. Softr + Airtable

Build a user-friendly web app from Airtable data

 Testing Steps:

Action	How To Test
Forms	Submit new task from the frontend — check if it's stored in Airtable

Action	How To Test
Task Completion	Edit or toggle completion via frontend
Conditional Views	Test filters (e.g., only show tasks where Completed is false)
User Login	Log in as different users (if using authentication)
Sync Test	Confirm Airtable changes are instantly reflected in the app

Softr lets you **preview** pages and test user roles (like logged-in vs guest).

Bonus: Automated Testing (No-Code)

Tool	How to Automate
Zapier	Create Zaps like "When task marked complete → send email"
Airtable Automations	Create a test automation and run it manually to test
Make (Integromat)	Build a scenario that checks or logs task status changes
Glide Actions	Set up logic flows and test them directly in the builder

Tool	How to Automate
Trello Butler	Create card triggers and observe the result

Your Options for "Version Control" Without Coding

Option	Description	Works With	Pros	Cons
Built-in version history	Many no-code tools track changes	Notion, Airtable, Trello, Glide	Easy, automatic	Not GitHub
Manual backups	Export data manually at key points	All tools	Simple fallback	Not automated
Snapshots / Duplicates	Duplicate app/pages before changes	Glide, Softr, Notion	Versioned copies	Manual tracking
Use GitHub for	Store exported	Airtable,	Versioned data	No live sync

Option	Description	Works With	Pros	Cons
content/data	files (CSV, JSON)	Notion, Trello		
Use third-party tools	Tools like Whalesync or Make	Airtable, Notion	Sync to dev stack	Complex setup

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Version Control Solutions by Tool

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1. Glide

- **No GitHub integration**
- Use **"Duplicate App"** to create versioned copies
- Glide **Backups (Pro plans)** let you restore previous versions
- You can also export data (Google Sheets or Glide Tables)

Workaround:

- Export your Google Sheet or Glide Table as CSV
- Push that file to GitHub for versioning

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2. Airtable

- **Built-in Revision History**
  - Every change is logged and viewable
  - Pro plans offer full history with timestamps
- **Snapshot Feature**
  - Save a snapshot of the entire base
- **Export as CSV**
  - Download tables and commit to GitHub if needed

Workaround:

- Automate backups to GitHub using tools like:
  - Airtable → GitHub via Make (Integromat)
  - [Airtable → GitHub CSV push via Zapier + scripts] (advanced)

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3. Notion

- **Built-in Page History**
  - Free plans: 7-day history
  - Paid: 30+ days version history
- **Duplicate Pages**
  - Keep versions like "To-Do App v1", "v2", etc.

- **Export Pages**
  - Export to Markdown → Commit to GitHub manually

Workaround:

- Export workspace → save .md and assets in GitHub repo

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4. Trello

- **Activity Log**
  - Every card and board has full activity history
- **Board Backups**
  - Use tools like TrelloExport to export as JSON/CSV
- No GitHub integration

Workaround:

- Export JSON files and commit them to GitHub manually

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5. Softr + Airtable

- Softr doesn't support GitHub, but Airtable backend can be versioned
- Use Airtable snapshots or export CSV

- Use automation tools like Zapier, Make to back up data

Pro Workaround: Push No-Code Data to GitHub

You can push your no-code app data to GitHub using automation tools:

Tools You Can Use:

Tool	Use Case
Make (Integromat)	Airtable/Notion → GitHub
Zapier	Limited, but can send data to GitHub via webhooks
Whalesync	Sync Notion or Airtable with a backend or database (paid)
Parabola	For visual data workflows (CSV → GitHub possible)

GITHUB: https://github.com/praveen2005977/kumar