ı	D Task	Description	Туре	<ul><li>Priorirty</li></ul>	<ul><li>Importance</li></ul>	Date Added	Added By	
	$\mbox{Main dashboard: $CO_2 \leftrightarrow T$ emperature} \leftrightarrow \mbox{Glacier mass}$	As a learner, I want a single dashboard showing CO <sub>2</sub> , temperature, and glacier mass together, so I can see how they relate.	Feature	4	High	9/21/2025	Chance Kissel	
	2 Navigation menu bar	As a user, I want a clear menu to switch between dashboard, map, and sources pages.	Feature		High	9/21/2025	9/21/2025 Lwin Moe	
;	3 Color-coded impact map	As a user, I want a world map with color coding so I can see which regions are most affected.	Feature			9/21/2025	9/21/2025 Chance Kissel	
	Time slider (history + projections)	As a user, I want a time slider to view past data and future scenario curves.	Feature		High	9/21/2025	9/21/2025 Soham Bhowmick, Chan- Kissel	
	5 Unit toggle (°C/°F)	As a user, I want to switch between Celsius and Fahrenheit.	Feature		High	9/21/2025	9/21/2025 Lwin Moe	
	Source links under each visualization	As a user, I want direct links to data sources so I can verify the data.	Feature/User Request			9/21/2025	Paul Leweis Marcos	
-	Real-time (or frequent) data updates	Implement data fetchers and caching so visuals reflect the latest available datasets without overloading APIs.	Development activity		High	9/21/2025	Lwin Moe	
1	8 Automated tests + CI pipeline	Set up unit/UI tests and continuous integration so each change builds and runs tests automatically.	Engineering Improvement			9/21/2025	Chance Kissel	
	9 Usage logging & metrics dashboard	Add client/server logging so we can see feature usage and performance trends over time.	Engineering Improvement			9/21/2025	Soham Bhowmick	
1	0 Accessibility pass (a11y)	Ensure keyboard navigation, sufficient contrast, alt text, and ARIA roles.	Engineering Improvement			9/21/2025	Lwin Moe	
1	1 Performance tuning for map & charts	Optimize data transforms and rendering for smooth interactivity on mid- range laptops.	Engineering Improvement			9/21/2025	Paul Leweis Marcos	
1	2 Data validation & error handling	Validate numeric ranges and handle service failures gracefully (offline states, retries).	Development activity			9/21/2025	Chance Kissel	
13	[1] Sign in with Google (OAuth 2.0)	As a user, I want to sign in with my Google account using OAuth 2.0 so I don't have to create a new password and my data stays secure.	Feature/Security			9/21/2025	Paul Leweis Marcos	
1	Basic security baseline (HTTPS, safe sessions, input checks)	As a user, I want the site to use basic, sensible protections so my login and data aren't easily exposed.	Feature/Security			9/21/2025	Soham Bhowmick	
1	5 Snapshot & share chart/map	As a user, I want to capture a snapshot or get a shareable link of the current view so I can show others the exact data and filters I'm seeing.	Feature		Nice to Have	9/21/2025	Lwin Moe	
1	6 Causes breakdown on hover	As a learner, I want a hover tooltip that breaks down the main causes for a point/region so I can quickly understand what's driving the numbers.	Feature		Nice to Have	9/21/2025	Soham Bhowmick	
1	7 "Ways to help / organizations" page	As a user, I want a vetted list of ways to help and trusted orgs so I can take action directly from the site.	Content Feature		Nice to Have	9/21/2025	Paul Leweis Marcos	
1	8 Simple simulation ("what-if" CO <sub>2</sub> & temperature)	As a user, I want to adjust an emissions path (low/medium/high) and a policy start year to see projected global temperature through 2100 side-by-side with a baseline, so I can compare scenarios and explain the trade-offs.	Feature			9/21/2025	Chance Kissel	
1	9 Sea-level overlay for 2040+	As a user, I want a sea-level projection layer I can toggle for a given year so I can visualize potential impacts on the map.	Feature			9/21/2025	Soham Bhowmick	
2	20 "About us" page	As a visitor, I want an About page with the project's mission and team so I can understand who built this and how to contact you.	Content Feature		Nice to Have	9/21/2025	Soham Bhowmick	

Sprint 1		Sprint 1	Sprint 2	Sprint 2 - Assignee	Sprint 3	Sprint 3 - Assignee	Sprint 4	Sprint 4 - Assignee	○ Sprint 5	Sprint 5 - Assignee
Yes	Chance Kissel, Lwin Moe, Paul Leweis Marcos, Soham Bhowmick	9/21/2025	 	C		C spinner inorginer				
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	Lwin Moe, Paul Leweis Marcos	9/21/2025								
	Soham Bhowmick	9/21/2025								
	Chance Kissel, Lwin Moe									
	Soham Bhowmick	9/21/2025								

⊙ State	Estimate (SP)	Acceptance
Ready for implementation	8	Dashboard loads with three synchronized views and a short legend; values update when the time window changes.
	3	Menu is visible on every page; keyboard accessible; current section is highlighted
Ready for consideration	8	Map pans/zooms; color scale and legend present; hovering shows region stats.
	5	Slider adjusts all visible charts; annotated ticks (e.g., decade marks); projection curves labeled.
	2	One click toggles units; all labels and tooltips reflect the selected unit.
Ready for consideration	2	Each chart/map shows at least one working source link and last-updated date.
Ready for consideration	8	Configurable refresh; graceful fallback to cached data; "data as of" timestamp shown.
Ready for consideration	5	PRs trigger build & tests; failing tests block merge; basic coverage reported.
	5	Key events logged; simple internal metrics page with weekly trends.
Ready for consideration	5	Pages pass automated a11y checks; keyboard-only demo verified by team. (
Ready for consideration	5	60 FPS target on common interactions; initial load <3s on test dataset.
Ready for consideration	5	Bad inputs rejected with clear messages; API outage shows non-blocking banner
Ready for consideration	8	Clicking Sign in with Google starts OAuth and allows safe cancel/return. The auth code is exchanged server-side (no client secrets). On success, the app creates/looks up the user by verified email and issues a Secure, HttpOnly session cookie; token refresh is handled server-side. Only whitelisted redirect URIs are allowed and the CSRF state is validated. Logout clears the session and revokes refresh tokens. Failures/timeouts show friendly errors and no PII is logged.
Ready for consideration	5	Site forces HTTPS; session cookies use Secure, HttpOnly, and SameSite. Server validates inputs and shows friendly errors (no stack traces); login has basic rate-limiting. Passwords (if used) are bcrypt/Argon2 hashed; no secrets/tokens in localStorage; logs avoid sensitive data.
Ready for consideration	5	User can click "Snapshot" to download PNG of current view; "Share" generates a link that reproduces the same filters/time window; works for charts and map.
Ready for consideration	8	Hovering a point/region shows a small, readable breakdown (top 3 categories + "more"); values and percentages sum correctly; legend matches colors.
Ready for consideration	3	Page lists vetted orgs with brief descriptions and outbound links; includes disclaimer; mobile-friendly layout; content lives in a CMS/JSON file.
Ready for consideration	13	User can adjust 1–2 sliders (e.g., emissions path) and see updated curves; reset to defaults; guardrails prevent unrealistic inputs; results labeled as "illustrative."
Ready for consideration	13	Map layer toggle adds semi-transparent sea-level projection; legend explains scenario/year; pan/zoom remains smooth; overlay can be exported in snapshots
Ready for consideration	2	Page shows mission, team, and contact; passes accessibility checks (alt text, headings); appears in site nav and footer.

