Week 6 Milestone Worksheet

SECTION A: Before Your Team Meeting

Step 1: Restate your team's problem statement

Please write **your team's** agreed-upon **problem statement** from Week 5 here:

Step 1: My Team's Problem Statement
Sub-Saharan Africa's public sector is plagued by systemic corruption and weak institutions, leading to inefficient public service delivery, misallocation of public funds, and widespread poverty. This crisis particularly affects urban and semi-urban citizens—young professionals, civil servants, and small business owners—who lack visibility into how tax revenues are spent. By deploying digital procurement and transparency tools, our goal is to ensure that all tender opportunities, contract awards, and spending datasheets are published in real time, empowering citizens to hold their government accountable.

Step 2: Bad Idea Brainstorm

BEFORE you meet with your team, conduct a **Bad Idea Brainstorm** with yourself. **List at least 10 bad ideas** for how you might solve your problem. You can get completely ridiculous.

For example: Sharks with laser beams in their heads who burn up microplastics in the ocean, bees that telepathically communicate in order to tutor children who don't have access to quality education, etc.

The dumber the idea, the better! The purpose of this is to get your mind open to generating ideas without fear of them being wrong, dumb, or bad. *(Stay in divergent thinking.)* Need help? You can get inspiration from: http://labs.jackpine.co/projects/FirstBadIdea/

Step 2: Individual Bad Ideas
1. **Install surveillance drones over every government office that zap bribe-takers with harmless but embarrassing confetti.** 2. **Develop a "Truth Serum" chatbot that everyone in government must compulsorily chat with once per week, to force them to reveal any hidden graft.** 3. **Replace all procurement officers with trained parrots that can only repeat approved procurement numbers (so no human corruption possible).** 4. **Distribute "anti-corruption sunglasses" that glow red whenever a bribe is nearby.** 5. **Create a government-issued wristband that tracks handshakes; any handshake outside official hours triggers an investigation.** 6. **Launch an "Anti-Graft Laser" that scans the nation's buildings for hidden**

suitcases of cash and instantly fines the nearest official.

7. **Force public-sector employees to wear transparent uniforms—so everyone can see if they're stuffing cash down their shirt.**
8. **Develop a "Corruption-Detecting Plant" that wilts whenever any nearby money is changing hands illegally.**
9. **Build a network of robotic fish in every river that leak "report corruption" messages whenever someone in government passes by.**
10. **Program all ATMs to beep loudly if they detect that a withdrawal is suspiciously timed around a procurement award announcement.**

Step 3: Possible ideas

Next, **list at least 5 "possible ideas" to address your problem.** These do **NOT** have to be good ideas. The only constraint is that they should be at least theoretically possible. They should involve some sort of technology (either a piece of software like an app or algorithm or a physical device such as a robotic fish or machine that scans your DNA). You're still in Divergent thinking here, so don't judge your ideas as good or bad.

Step 3: Individual Possible Ideas

1. **A blockchain-based national procurement ledger where every tender, bid, and contract is immutably recorded, viewable in real time via a public app.**
2. **A mobile app that uses computer vision to scan and publish procurement documents from MDA offices as soon as they are posted on physical bulletin boards.**
3. **A voice-activated virtual assistant (Alexa/Google Home skill) that lets**

citizens ask: "Show me last month's procurement awards in Anambra State" and speaks back the data.

4. A crowdsourced "Procurement Transparency Map" website where citizens can geotag and upload photos of ongoing government projects to track progress and flag delays.
5. A machine-learning algorithm that analyzes newspaper reports, social media, and e-procurement portals to flag any suspicious procurement patterns (e.g., one firm winning too many contracts).
6. A simple SMS-based notification system that sends any approved contract or award summaries to registered phone numbers whenever new tenders go live.
7. A low-cost tablet kiosk installation at every local government headquarters, allowing citizens to tap through and view current procurement and expenditure details in their native language.

!!! PLEASE BRING THE ABOVE WORK WITH YOU TO YOUR TEAM MEETING.

Please go back to Savanna and continue with your learning content. You will be prompted on when to return to complete Section B.

SECTION B: Team Meeting Output

Step 4: Meeting Date, Time, & Location

Please list when and where your team meeting took place.

Step 4: Meeting Date, Time, & Location
A. Date: June 1, 2025 B. Time: 10:00 PM (WAT) C. Location: Google Meet (Meet - crx-byjj-hma)

Step 5: Meeting Attendees

Please list who attended your team meeting, and their primary role.

Step 5: Meeting Attendees
1. Patience Simuli – Team Coordinator (primary); Data Analyst (backup) 2. Godsfavour Nnaji – Data Analyst (primary); Research Lead (backup) 3. Calvin Ndegwa – UI/UX Designer (primary); Project Manager (backup) 4. Simon Edwin – Research Lead (primary);

Step 6: Bad Idea Brainstorm (Team)

Everyone should share several of their previously bad ideas from Step 2 above. Then as a team, you must **generate at least 10 more new bad ideas.**

Remember, the dumber the idea, the better! This is to help you work as a team to be non-critical. **Stay in divergent thinking.** It helps to say *"thank you"* after every idea is shared.

Step 6: Bad Ideas (Team)

1. **Lie Detector Machines that set off alarms in offices**
2. **Self-destructing government cash vaults**
3. **Out-sorcing government duties to private tech companies**
4. **Corruption-Detecting Satellites from Space**
5. **Replace All Government workers with AI Robots**
6. **Refuse the right to privacy for government workers - require public officers to broadcast their bank balances every month on a monthly radio show.**
7. **Run a reality show with government officials and eliminate one each week**
8. **Develop "bribe-repellent" creams and stickers for government officers that cause an uncomfortable reaction to bribe.**
9. **Legalise bribes and include them within the tax-basket.**
10.

Step 7: Possible ideas (Team)

Next, everyone should **share at least 2 of their possible ideas from Step 3 above.** Your team then needs to come up with at least **5 new "possible ideas" to address your problem.** The only constraint is that they should involve some sort of technology (either a piece of software like an app or algorithm, or a physical device such as a robotic fish or machine that scans your DNA.

You're still in Divergent thinking here, so don't judge any ideas as good or bad. Again, it helps to say **"thank you"** after every idea is shared.

Step 7: Possible Ideas (Team)
1. **Blockchain procurement Ledger publicly accessible** 2. **A crowdsourced "Procurement Transparency Map" platform where citizens upload geotagged project photos, track milestones, and rate progress.** 3. **A machine-learning model that scrapes open-data portals and social media to highlight suspicious tender winners.** 4. **Paying whistleblowers** 5. **E-procurement portals where governments projects and contracts are uploaded for public bidding.** 6. **Online Archive (Wikipedia) Reporting Various Politician Report Cards**

Step 8: Narrowed Ideas

Your next task is to **narrow your choices,** which will put you in a **convergent thinking mindset.** You should discuss and debate this and try to reach a consensus on **3 ideas for a solution** (or partial solution) to your problem that your team will consider working on for the rest of Month 2. These ideas can be totally new, the same, or variations from ideas you've already come up with.

Remember that they should involve some sort of technology *(either a piece of software like an app or algorithm, or a physical device such as a robotic fish or machine that scans your DNA).*

You will not have to build the solution out. But you will have to create some type of basic prototype (if it is a device) or a set of wireframes (if it is an app/software). You will not have to actually create the technology or code.

Step 8: Top 3 Ideas (Team)
1. **Blockchain procurement Ledger publicly accessible** 2. **A crowdsourced "Procurement Transparency Map" platform where citizens upload geotagged project photos, track milestones, and rate progress.** 3. **A machine-learning model that scrapes open-data portals and social media to highlight suspicious tender winners.**

Step 9: Selected Solution

Lastly, your team must agree on one idea for a solution (or partial solution) that you will work on for the rest of Month 2.

Remember, the solution should involve some sort of technology and be possible to create—but feel free to make it very ambitious! You will have to create some type of basic prototype (if it is a device) or a set of wireframes (if it is an app/software). You will not have to actually create the technology.

You must find a fair way to reach a consensus with your group, including a discussion in which everyone's voice can be heard.

Step 9: Team's Final Selected Solution Idea
A crowdsourced "Procurement Transparency Map" platform where citizens upload geotagged project photos, track milestones, and rate progress.

Step 10: Action Items

In your meeting for Week 7, you will need to share work on a **prototype** or **wireframes**. Please list out here what specific people will do to contribute to this before the next meeting.

Step 10: Action Items
Patience Simuli – User Flow & Feature Outline • **Draft a clear user flow diagram detailing how a citizen:** 1. **Registers or logs in**

2. Geotags a project site
3. Uploads a project photo and milestone update
4. Rates progress
5. Views other users' submissions on the map

- Define 5–7 core features (e.g., "Submit Project," "View Map," "Rate Progress," "Search by Location," "Comment/Flag Issues").
- Deliverable: A single-page flowchart

Godsfavour Nnaji – Sample Data Collection & Cleanup

- Identify and compile a list of at least 20 recent government projects (e.g., road repairs, school builds) across two pilot states (e.g., Anambra & Lagos).
- Gather:
  - Project name
  - Location (address or approximate GPS coordinates)
  - Current milestone/status
  - Responsible MDA and contract amount
- Clean and standardize this data into a spreadsheet (columns: Project ID, Name, Latitude, Longitude, Status, Budget, MDA).
- Deliverable: A "sample_projects.csv" file with ≥20 rows.

Calvin Ndegwa – Low-Fidelity Wireframes (Map Interface & Upload Form)

- Create at least three wireframe screens in Figma or Sketch:

1. **"Map View": Interactive map showing pins for each project (use blank pin icons for now).**
2. **"Project Submission": Form where a user:**
    - **Enters Project Name**
    - **Taps a location on the map (or enters an address)**
    - **Uploads a photo (placeholder work)**
    - **Selects a milestone from a dropdown (e.g., "Foundation," "Roofing," "Completion")**
    - **Writes a brief comment or rate progress (e.g., 1–5 stars)**
3. **"Project Detail": Popup/modal for each pin that shows:**
    - **Project name**
    - **Latest photo (placeholder)**
    - **Status/milestone**
    - **User rating**
    - **Link to "Submit an Update"**

- **Label all buttons, fields, and placeholders clearly.**
- **Deliverable: Design files with annotated wireframes.**

Simon Edwin – Research: Mapping APIs & Crowdsourcing Best Practices

- **Investigate two mapping APIs (e.g., Google Maps JavaScript API, Leaflet/OpenStreetMap) and list pros/cons regarding:**
    - **Ease of integration (JavaScript or mobile SDKs)**
    - **Geotagging capabilities**

- Cost (free tier vs. paid)

- **Document three examples of successful crowdsourced mapping platforms (e.g., Ushahidi, OpenStreetMap community initiatives) and highlight:**
  - **How they ensure data accuracy/trust**
  - **Any moderation or verification workflows**
  - **User engagement tactics (e.g., badges, upvotes)**
- **Deliverable: A 1-page "Mapping & Crowdsourcing Brief" (Google Doc).**

SECTION C: Reflections

Step 11: Team Roles

Relist your team members' names and their primary roles.

Step 11: All team members & their roles
1. Patience Simuli – Team Coordinator (primary); Data Analyst (backup)
2. Godsfavour Nnaji – Data Analyst (primary); Research Lead (backup)
3. Calvin Ndegwa – UI/UX Designer (primary); Project Manager (backup)
4. Simon Edwin – Research Lead (primary);

Step 12: Reflections

Please share your personal reflections on your experience with your team so far.

Step 12: Team Process Reflection

A. What is working well with your team?

Communication - We have a dedicated WhatsApp Group Chat, and everyone replies promptly.

B. What is one good thing that happened during your team meeting?

We quickly reached consensus on a single solution (A crowdsourced "Procurement Transparency Map") after debating all options. That saved time and avoided confusion.

C. What is one thing your team could do better in the next meeting?

We need to time-box our brainstorming more strictly. We spent 20 minutes on Bad Ideas and could have used 10 minutes instead, leaving more time for narrowing ideas.

D. Are you experiencing any concerns or frustrations with your team? If yes, what can you personally do to lessen the concern/frustration?

A couple of members indicated they have limited experience with blockchain. To lessen that, I took time to explain the basic principles, thereby restoring every team members confidence.

E. How would you rate your ability to communicate with your team members on a scale of 1 to 4? (1=extremely poor and 4=excellent)

4 – Excellent

F. Overall, how satisfied are you with how well your team is working together? *(On a scale of 1 to 4, with 1=extremely poor and 4=excellent)*

4 – Excellent

G. Is there anything else you'd like to share about your team and their process?

Working with Non-Nigerians is fun!

Once you have completed this worksheet:

1. Export/convert to .pdf.
2. Rename it per the instructions.
3. Upload to Savanna as your Milestone 6 Submission.
4. **Celebrate a job well done!**