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ArcGIS Online Development Plan

Week 3: Practical Tasks – StoryMaps, Instant Apps & QuickCapture

Project Title:

Build an Interactive Story and Field Data Visualization App using ArcGIS Online Applications

Project Description:

In this project, the trainee will transform spatial data collected from field operations into engaging visual stories and interactive map applications. The goal is to demonstrate the use of ArcGIS StoryMaps, Instant Apps, and QuickCapture to communicate data insights, share field updates, and present key results effectively to both technical and non-technical audiences.

Detailed Tasks:

1. StoryMaps Development

- Create a new StoryMap project to present results from Week 1 and Week 2 projects.
- Add sections combining text, interactive maps, charts, and multimedia (images, videos).
- Use Sidecar or Map Tour blocks to show spatial change or movement patterns.
- Embed Dashboards or Experience Builder apps directly within StoryMap sections.
- Write a clear narrative explaining data collection, field validation, and analysis outcomes.
- Apply consistent branding (colors, fonts, and logos).

2. Instant Apps Configuration

- Choose 2 different templates from Instant Apps (e.g., Media Map and Interactive Legend).
- Configure each app to serve a unique purpose:
 - * One focused on visualization (e.g., assets status).
 - * One focused on data exploration (filtering and comparing layers).
- Customize toolbars, layouts, and pop-ups for end-user simplicity.
- Test app responsiveness and ensure it loads efficiently on desktop and mobile.
- Adjust sharing settings and permissions for internal or public access.

3. QuickCapture Project

- Design a QuickCapture project for real-time field data collection (e.g., reporting damaged assets or maintenance requests).
- Create logical button groups with meaningful icons and colors.
- Configure fields and location capture (GPS-enabled).

- Link the output layer to a Dashboard or Instant App for live monitoring.
- Test submission and synchronization workflow from a mobile device.

4. Integration & Publishing

- Combine all outputs into one unified presentation flow:
 - * Start with the QuickCapture data.
 - * Visualize and analyze results in Instant Apps.
 - * Conclude with an interactive StoryMap summarizing findings.
- Verify all apps are interlinked and shared correctly through ArcGIS Online.
- Perform a usability test with another team member to review clarity and functionality.

Deliverables:

- Published StoryMap containing integrated maps, dashboards, and narratives.
- At least two Instant Apps representing visualization and analytical perspectives.
- Fully functional QuickCapture project with real sample data.
- Short presentation report (2-3 pages) summarizing objectives, outputs, and screenshots.