

Interactive dashboard preparation for web gis application: Case Study of Kolkata

PREFACE:

We may design distinctive web experiences with ArcGIS Experience Builder by utilizing adaptable layouts, content, and widgets that engage with 2D and 3D data. Create mobile-adaptive apps by starting with templates, alter template layouts for a unique design on various screen sizes, or build apps from scratch for more creative freedom. A dashboard is an information management tool that provides data visualizations using data from a linked database. Typically, it provides end users with high-level data in a single view that they can utilise to respond to a single query. They can frequently be set up to give the end user particular information and control how this information is shown. For instance, numbers, graphs, or charts. Users using dashboards from many kinds of enterprises can track performance, generate reports, and make predictions and objectives going forward. The advantages of data dashboards include the ability to quickly identify data outliers and correlations, a visual representation of performance, the ability to identify trends, an easy method of measuring efficiency, the ability to generate detailed reports with a single click, and total visibility of all systems, campaigns, and actions. Some of the more typical components that appear while working in ReactJS are functional components. Simply put, these are JavaScript functions. Writing a JavaScript function allows us to build a working React component. Data may or may not be passed as parameters to these functions. The JSX code needed to render the DOM tree is returned by the functional Components. A component may be declared as a class or a function, but it may never edit its own props. Log into the portal as a user who could produce content, such as the Creator user type, in order to use the custom widget. Use a map-centric template, like Launchpad, to create a new app. The Enhanced Locate widget can be found in the Custom area of the widget window by scrolling down. It may be included in the app just like any other pre-installed widget. With a few significant changes, ArcGIS Experience Builder outperforms Web AppBuilder. It supports page layouts with one map per page, multiple maps per page, and long scrolling pages. With this modification, a designer is now able to tell a convincing story, map or no map. Either 2D or 3D mapping is supported when a map is used. It offers a mobile-first layout that is adjustable for all screen sizes. Additionally, it offers the capacity for inter-widget communication via "action triggers," a class of event listener. Multiple widgets can cooperate with and respond to one another thanks to this functionality. New widgets, like the built-in Survey123 widget, are available in ArcGIS Experience Builder. However, many of the anticipated out-of-the-box widgets are now absent from. In contrast to Web AppBuilder's more than 70 basic widgets, it now only offers 18 of them. The Experience Builder app is expected to achieve the majority of functional equivalence with Web AppBuilder through incremental release, according to Esri's FAQs. The scope of functionality without bespoke programming is significantly constrained by this level of "no-code" compatibility.