# Building Web Apps with ArcGIS® Experience Builder

STUDENT EDITION

Copyright © 2023–2024 Esri All rights reserved.

Course version 1.3. Version release date April 2024.

Printed in the United States of America.

The information contained in this document is the exclusive property of Esri. This work is protected under United States copyright law and other international copyright treaties and conventions. No part of this work may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying and recording, or by any information storage or retrieval system, except as expressly permitted in writing by Esri. All requests should be sent to Attention: Director, Contracts and Legal, Esri, 380 New York Street, Redlands, CA 92373-8100, USA.

**Export Notice:** Use of these Materials is subject to U.S. export control laws and regulations including the U.S. Department of Commerce Export Administration Regulations (EAR). Diversion of these Materials contrary to U.S. law is prohibited.

The information contained in this document is subject to change without notice.

**Commercial Training Course Agreement Terms:** The Training Course and any software, documentation, course materials or data delivered with the Training Course is subject to the terms of the Master Agreement for Products and Services, which is available at <a href="https://www.esri.com/~/media/Files/Pdfs/legal/pdfs/ma-full/ma-full.pdf">https://www.esri.com/~/media/Files/Pdfs/legal/pdfs/ma-full.pdf</a>. The license rights in the Master Agreement strictly govern Licensee's use, reproduction, or disclosure of the software, documentation, course materials and data. Training Course students may use the course materials for their personal use and may not copy or redistribute for any purpose. Contractor/Manufacturer is Esri, 380 New York Street, Redlands, CA 92373-8100, USA.

**Esri Marks:** Esri marks and product names mentioned herein are subject to the terms of use found at the following website: <u>https://www.esri.com/content/dam/esrisites/en-us/media/legal/</u> <u>copyrights-and-trademarks/esri-product-naming-guide.pdf</u>.

Other companies and products or services mentioned herein may be trademarks, service marks, or registered marks of their respective mark owners.

# Table of Contents

Esri resources for your organization

#### Course introduction

Course introduction Course goals Installing the course data Icons used in this workbook

#### 1 Introducing ArcGIS Experience Builder

Lesson introduction Capabilities of ArcGIS Experience Builder Introduction to ArcGIS Experience Builder versions Explore an ArcGIS Experience Builder app Use cases for ArcGIS Experience Builder ArcGIS Experience Builder creation workflow Lesson review Answers to lesson 1 questions

#### 2 Designing a web app

Lesson introduction Design elements Design considerations Exercise 2A: Explore the out-of-the-box templates Sign in to ArcGIS Experience Builder View the blank templates Examine the Web AppBuilder Classic templates Explore the Map Centric templates Inspect the dashboard style templates View the web page and website templates Choosing an out-of-the-box template category Introduction to the interface Exercise 2B: Apply design principles to an app Open ArcGIS Experience Builder Set the theme for the app Adjust the widgets on the page View the app on various devices Lesson review

#### Answers to lesson 2 questions

#### 3 Adding pages and windows to an app

Lesson introduction Working with pages Exercise 3A: Configure a multipage app Create a new experience Add a page with a header Configure the page options Update the page outline Configure the menu Working with windows Exercise 3B: Add windows to an app Add a splash screen Populate the content in a window Create a custom button Add an interactive effect to a button Preview the windows Linking to an external window Lesson review

#### 4 Working with maps

Lesson introduction Overview of the Map widget Explore the map tools Adding data to an app Exercise 4: Build a Map widget with data Add a Map widget to a blank page Connect the map to data Modify the map view Add tools to the map Configure the map style Lesson review Answers to lesson 4 questions

#### 5 Creating a mapcentric app

Lesson introduction Discover types of mapcentric widgets Creating a 3D mapcentric app Exercise 5A: Build a 2D mapcentric app Define the layout of the app Show a customized list of layers and legend Compare mapcentric widgets to map tools Highlight key information using bookmarks Measure distance and area by drawing on the map Connecting utility services to widgets Exercise 5B: Configure a widget with a utility service Organize the widgets on the page Add a custom utility service to the app framework Convert coordinates for locations in the field Determine distance and drive time to each site Print field maps based on the current map extent Using a utility service to create an infographic Lesson review Answers to lesson 5 questions

#### 6 Creating a datacentric app

Lesson introduction Discover types of datacentric widgets Types of data sources Configuring data-driven functionality Using data views in an app Exercise 6: Configure dynamic content in an app Add web layers to a dashboard style app Calculate a statistic to summarize information Build an expression to calculate a value Display an attribute based on the map selection Preview the dynamic functionality Identifying the requirements for a datacentric app Lesson review Answers to lesson 6 questions

## 7 Configuring actions for a datacentric app

Lesson introduction Message actions Using the framework as a target Exercise 7A: Use message actions in an app Create an app Configure a search Create a chart Preview message actions Discover data actions Exercise 7B: Use data actions in an app Create an app Create a list of layers Enable tools for the list Configure the data actions Preview data actions Identifying the action requirements Lesson review Answers to lesson 7 questions

### 8 Configuring a mobile layout

Lesson introduction View an optimized mobile layout Customizing mobile layouts Common layout widgets Exercise 8: Use layout widgets to create a mobile-friendly app Create the app page Insert a sidebar to contain widgets Add a card that contains text and images Create a section that contains views Populate the app content Customize the layout for small-screen devices Preview the app on a mobile device Lesson review Answers to lesson 8 questions

#### 9 Deploying an app

Lesson introduction Publishing workflow Publishing statuses Exercise 9A: Apply the publishing workflow Choose an app to publish Update the sharing level Publish the app Refine the app Workflow review Exercise 9B: Deploy a new web app Create a new app with a splash screen Configure the app based on a scenario Publish the mobile-friendly app Exercise 9B solution with steps Answers to lesson 9 questions Exercise 9B solution: Exercise 9B solution with steps

# Appendices

Appendix A: Esri data license agreement Appendix B: Answers to lesson review questions Appendix C: Additional resources