<u>User Manual</u>

The CT Explored: Guided Tours application is designed to provide an interactive and immersive tour experience. Users can explore various locations, access detailed information about points of interest (POIs), and engage with social media features. The application aims to enhance cultural and historical awareness by integrating user-friendly navigation, multimedia content, and interactive leaderboards.

System Requirements

- Android: Requires Android 8.0 or later.
- iOS: Requires iOS 13.0 or later.
- Internet Connection: Required for accessing location-based services and social media features.
- Device Storage: Minimum of 200MB free space recommended for smooth operation.

Installation and Deployment

Pre-Deployment Setup

- 1. Log in to the Expo Application Services (EAS) account using: eas login
- 2. Ensure all dependencies are installed and updated before proceeding with the build.

Android Installation

- 1. Build the latest version of the app: <u>eas build --platform android</u> PS C:\Users\saifr\Documents\Code\CTExplored-TechBallers> <u>eas build --platform android</u> Resolved "production" environment for the build. Learn more: <u>https://docs.expo.dev/eas/environment-variables/#setting-the-environment-for-your-builds</u> No environment variables with visibility "Plain text" and "Sensitive" found for the "production" environment on EAS. android.versionCode field in app config is ignored when version source is set to remote, but this value will still be in the manifest available via en / Using remote Android credentials (Expo server) / Using Keystore from configuration: Build Credentials Lsj0Q7drjK (default) Compressing project files and uploading to EAS Build. Learn more: <u>https://expo.fyi/eas-build-archive</u> / Uploaded to EAS / Computed project fingerprint Build details: <u>https://expo.dev/accounts/ctexploreddev/projects/CTExploredGuidedTours/builds/4fd3001b-e2a4-43f0-a4de-c60aee9cd22d</u> Waiting for build to complete. You can press Ctrl+C to exit. Build queued...
- 2. Google Play Store requires a Google Service Account for submission. Follow the steps:
 - a. Create a service account and obtain a JSON key file outlined here.
 - b. Update the eas.json file with the correct serviceAccountPath variable.
 - c. Update the version and the version code in the app.json file so it is different from last submission, or an error will occur.

3. Submit the build for review: <u>eas submit --platform android</u>



Choose 'Select a build from EAS', and choose an android build you wish to submit.

- 4. Log in to the Google Play Console, select the app, and select 'Releases Overview'.
- 5. Click the arrow to the right on your release.

Latest releases 💿			
Release	Latest version	Track	Release status
0.1.45	5	Internal testing	Available to internal testers Full rollout
-		Production	Draft

6. Add testers via the 'Internal Testing' and share the testing link.

	6		e	
Internal test	ing			
Create and manage internal	testing releases to mak	e your app available to	up to 100 internal testers. <u>Learn more</u>	
Track summary Active Latest release: 0.1.	.45 Temporary app na	ame 'com.ctexploredde	r.CTExploredGuidedTours (unreviewed)' ⑦	
Releases	Testers			
Testers Up to 100 testers can join your internal tests. You can choose more than 100 testers, but only the first 100 to join will be successful.				
Testers		List name	Users	
		Testers	2	→
	Crea	te email list		

7. Ensure that Google Play policies regarding permissions and access are met before deployment.

IOS Installation

- 1. Log in to the Apple Developer account.
- 2. Build the latest version of the app using: Eas build --platform ios



- Reuse the existing provisioning profile.



3. Select the build you want to submit to TestFlight using: <u>Eas submit --platform iOS</u>. Ensure compliance with Apple's App Store guidelines before submission.

<pre>@ PS C:\GitHub\CTExplored-TechBallers> eas submitplatform ios</pre>
<pre>v What would you like to submit? » Select a build from EAS v Which build would you like to submit? » - ID: c62b0a82-9b7a-4ccb-9ba2-8211ae6d21a8 (44 seconds ago) Ensuring your app exists on App Store Connect. This step can be skipped by providing ascAppId in the submit profile. Learn more: <u>https://expo.fyi/asc-app-id</u></pre>
 > Log in to your Apple Developer account to continue / Apple ID: bibek.bhatt@my.ccsu.edu > Restoring session C:\Users\Bibek Bhatt\.app-store\auth\bibek.bhatt@my.ccsu.edu\cookie > Team Connecticut Explored, Inc. (\$428903457) > Provider Connecticut Explored, Inc. (126990333) / Logged in Local session
 ✓ Bundle identifier registered com.ctexploreddev.CTExploredGuidedTours ✓ Prepared App Store Connect for CTExploredGuidedTours com.ctexploreddev.CTExploredGuidedTours Looking up credentials configuration for com.ctexploreddev.CTExploredGuidedTours ✓ App Store Connect API Key already set up. Using Api Key ID: SXHD7N3Z6F ([Expo] EAS Submit 5R_MtfYgIu)
ASC App ID: 6480323417 Project ID: eb475563-af70-494f-a38e-d66fede80c47 App Store Connect API Key: Key Name : [Expo] EAS Submit SR_MtfYgIu Key ID : 5XHD7N3Z6F Key Source: EAS servers
Build ID : c62b0a82-9b7a-4ccb-9ba2-8211ae6d21a8 Build Date : 3/14/2025, 8:21:08 PM App Version : 0.1.43 Build number: 2
✓ Scheduled iOS submission Submission details: https://expo.dev/accounts/ctexploreddev/projects/CTExploredGuidedTours/submissions/3d50b7cf-c9b0-41f0-a3b7-f36d307915a8

Note: The submission upload to the Apple Dev platform usually takes 5-10 minutes. Once it is uploaded the members in the internal TestFlight group gets invitation. If you want to add more testers you can add them to this group or you can send out individual invitations.

App Store Connect	Apps	Analytics	Trends	Reports	Business	Users and Access	Bibek Bhatt V Connecticut Explored, Inc.
CTExplored:	Guided	Tours ~	Distribution	TestFlight X	code Cloud		
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							English (U.S.)
Test Details							
What to Test ?							
Let your testers know what you would like testers in all groups who have access to the	them to test in this b his build.	uuild. This information w	vill be available to				
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Group (1) 😏				Individu	al Testers (0)	0	
Add groups to this build. All testers in thes	se groups will have a	ccess to this build.		Add an indivi	dual tester to 1 Add New	Testers	
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CTExplored TestFlight Inte	ernal		3		No t	esters have been added for this	build.

4. Review the uploaded build and distribute it for internal testing via TestFlight.

Waiting for build to complete. You can press Ctrl+C to exit. ✓ Build finished iOS app: https://expo.dev/artifacts/eas/sEn18YdD9TH3roqCkf75EY.ipa Waiting for submission to complete. You can press Ctrl+C to exit. ✓ Submitted your app to Apple App Store Connect! Your binary has been successfully uploaded to App Store Connect! - It is now being processed by Apple - you will receive an email when the processing finishes. - It usually takes about 5-10 minutes depending on how busy Apple servers are. - When it's done, you can see your build here: https://appstoreconnect.apple.com/apps/6480323417/testflight/ios

Main Features

1. Tour Selection

A list of tours will appear when opening the app. Users can scroll through and click on any tour they wish to view. Selecting a tour will bring the user to a map view and will contain multiple points of interests (POIs) related to the tour. Tours are split into multiple categories that show the recommended form of travel when following the tour. The categories can be seen on the "Select a Tour" page in the bottom-left corner of each tour. The categories are walking, biking, and driving.

Connecticut Explored

Select a Tour



Hartford's 1st Black Congregation Tour



Unearthing Connecticut's Vampire Lore



2. Viewing POIs

When on the map page of a tour, multiple blue circles with numbers will be shown. These are points of interests (POIs), and they can be clicked on to view more information about the POI, such as images, descriptions, historical context, and related articles. There will be a box at the bottom of the screen that shows the name and a picture of the current selected POI. The name of the POI in this box can be tapped to also view more information. Clicking on the arrows will allow the user to jump from one POI to the next on the map.



3. Navigation Assistance

While on the detailed information page of a POI, the blue address can be clicked to give you directions to its location. This integrates with the Google Maps or Apple Maps application on your phone.

← Stop 1: First Church of Christ, now Center Church



In 1819, a group of African Americans in Hartford grew weary of being assigned seats in the galleries and in the rear of churches and decided to begin worshipping on their own in the conference room of the First Church of Christ, now Center Church, in Hartford. This became the first black Congregational Church in Connecticut, the third oldest in the nation.





4. Read More

While viewing the information page of a POI, users will have access to the "Read More" button on the bottom. Clicking this button will open the browser and bring them to an article on the CTExplored's website related to the POI and tour that the user is currently viewing.

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← Stop 1: First Church of Christ, now Center
Church
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9 60 Gold St, Hartford, CT, 06103

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5. POI Quick Navigation

On the detailed information page of a POI, arrows can be found at the bottom (scrolling may be needed). Like the arrows on the map screen, clicking on these can take you from one POIs detailed view to the next without having to go back to the map screen. This provides users with another option of following the tour which requires less back-and-forth navigation that might be confusing to some.

← Stop 1: The Mix Manufacturing Company



491-359 Mixville Rd,Cheshire,CT,6410

Ball & Socket Manufacturing was founded when Cheshire was primarily an agricultural community. Cheshire never became an industrial center, but other small mills and factories were scattered around town during the second half of the 19th century. The Mix Manufacturing Company made Britannia spoons and later gimlets and auger bits; the Cheshire Brass Company produced sheet brass; and the Capewell Horse Nail Company, which later moved to Hartford, manufactured horseshoe nails. The Ball & Socket Manufacturing Company flourished, becoming the largest factory in town and one of the largest manufacturers of metal buttons in the world.

← Stop 2: Ball & Socket Manufacturing Compa



493 West Main Street, Cheshire, CT, 6410

For almost 150 years, workers walked the floors of the Ball & Socket Manufacturing Company. Originally formed as Cheshire Manufacturing in 1850, the company was a major producer of buttons and fasteners for textiles. The site of the factory buildings was chosen for its proximity to the New Haven and Northampton Railroad, newly built in 1848 along the towpath of the former Farmington Canal, which enabled products to be shipped to the port city of New Haven and beyond by rail or ship.



6. Instagram Integration

Users can link their Instagram account to the app. On the detailed information page of any POI, clicking on the "Instagram" button will prompt the user to first login using Google, Facebook or Apple ID. Clicking on it again will then allow the user to login with their Instagram account. This allows users to make direct posts from the CT Explored app.

Note: Only Business or Creator Instagram Accounts can use this feature.





Explored Scavenger Hunt App to your Instagram account. Would you like to continue sharing information about ctexploreddev?



7. Text-to-Speech Feature

While viewing a POI's information page, users can click on the "Click to Play" button to have the app verbally read out the POI's description via Text-to-Speech. This accessibility feature allows ease of use for visually impaired users.

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8. Saving POIs

At the bottom of a POIs detailed information page, users can click on the "save" button to save that POI for future viewing. All saved POIs can be viewed from the "Saved" section of the app, which can be reached by returning to the tours page and clicking on the "Saved" tab at the bottom.

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Select a Tour



Hartford's 1st Black Congregation Tour



Unearthing Connecticut's Vampire Lore

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Save

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Connecticut Explored

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First Church of Christ, now Center Church

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9. Leaderboard

After connecting their account to Instagram, users can earn points by posting photos with the designated hashtag. The leaderboard can be viewed by clicking on the "Leaderboard" tab at the bottom. This tab will show users the rankings as well as the user's current scores.



10. App Tutorial

Users can click on a button in the top left corner of the tours page to activate a small tutorial on how to navigate the app. The tutorial quickly covers selecting a tour, viewing POI information, navigating POIs, activating GPS for a POI, and location additional features such as logging into Instagram, saving POIs, and viewing tour articles. The tutorial can be navigated by clicking on the "next" button on the bottom right or by swiping left and right.







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	in the conference room of the First Church of Christ, now Center Church, in Hartford. This became the first black Congregational Church in Connecticut, the third eldest in the nation.	
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	Features	
At the botto	m of the page on a Poir	t of Interest,
Click 'Instagrar	n' to upload a photo to prizes.	earn points and
Click 'Read More	e' to view the full article	e on our website.
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11. Leaderboard and Prize Tutorial

Users can click on a button in the top left corner of the leaderboard page to activate a brief tutorial about how to earn points and what prizes you can win. The tutorial can be navigated by clicking on the "next" button on the bottom right or by swiping left and right.





Earning Points

You will earn 5 points per photo!

Every 50 points you are eligible to receive a prize!

Choose from great prizes like water bottles, t-shirts, and coffee mugs!

Do you have enough points for a prize?

Click Here To Choose A Prize!

Additional Walkthrough- Using Text to Speech

- 1. Open the app and select a tour from the list.
- 2. Tap on a POI marker on the map.
- 3. On the POI details page, locate the "Click to Play" button.
- 4. Tap the button to hear an audio narration of the POI description.

←

Church





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Additional Walkthrough- Using Read More

- 1. Open the app and select a tour.
- 2. Navigate the map to explore POIs.
- 3. Click on a POI to access its description along with its detailed article, images, and navigation options.





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Additional Features

• **S3 Bucket**: All pictures are served through Superbase's storage system, utilizing an S3-compatible bucket allowing for faster load times without taking up device storage.

CTExplored Free) 0 / CT Explo	ored App: Guided Tours 0 👘 Enable branching	@ Connect						
Storage	< tour-images			S Reloa	d 🗌 View	🖞 Upleed files	Create folder	
New bucket	Ball & Socket Manufactori							
	Hartford's 1st Black Congr							
	Unearthing Connecticut's							
tour-images Public								
Policies Settings 7								

- User Authentication: Secure login via Google, Facebook, or Apple ID.
- Offline Access: Cached data allows users to view limited information offline.

6. Troubleshooting & Support

- App Crashes: Ensure the app is updated to the latest version.
- Internet Issues: Verify connectivity for accessing online features.
- Login Problems: Check login credentials and authentication settings.
- Leaderboard Delays: Refresh the app or verify hashtag usage for real-time updates.
- Navigation Issues: Ensure GPS permissions are enabled.
- **TestFlight Installation Errors:** Check that the TestFlight app is updated.