**Eventivity Final Year Project Presentation**

**Slide 1: Title Slide**

* Eventivity
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* Final Year Project Presentation 2025

**Speaker Notes:**  
Hi, I’m Dean Sinnott. My project is called Eventivity. It’s a progressive web app designed for hosting multiple events in a reusable, adaptable way. Today I’ll walk you through the idea, what I built, the tools I used, and what I learned along the way.

**Slide 2: Core Concept**

* A reusable, themed Progressive Web App (PWA)
* Supports multiple events within one platform
* Dynamic theming and offline capability

**Speaker Notes:**  
The core idea behind Eventivity is reusability. Instead of building a new app for every event, Eventivity adapts its theme and content dynamically. It’s installable, works offline, and is built with scalability in mind.

**Slide 3: Motivation**

* Inspired by a friend’s real-world event in 2026 (EASA)
* Aim to support local events with a modern, scalable platform
* Opportunity to apply cloud knowledge in a practical setting

**Speaker Notes:**  
The idea came from a real event my friend is helping to organise in 2026. I saw an opportunity to build something meaningful that supports local events. It also gave me a chance to use my cloud computing knowledge in a practical project.

**Slide 4: Idea Development**

* Started as a single-event app
* Expanded scope after supervisor feedback
* Introduced adaptive structure for multiple events

**Speaker Notes:**  
Originally, I was building this for just one event. But after talking with my supervisor, I expanded it. The result was a platform where any event could be added, each with its own theme and content, but using the same structure.

**Slide 5: Development Approach**

* Incremental, feature-by-feature development
* GitHub Issues used to track bugs
* Branching for each component/feature
* CI/CD with GitHub + AWS Amplify

**Speaker Notes:**  
I used a flexible, iterative approach. I built one feature at a time and tested as I went. GitHub Issues helped me track bugs and small fixes. Amplify deployed the app every time I pushed to the main branch.

**Slide 6: Technologies Used**  
**Frontend:** React, Vite, Tailwind CSS  
**Backend/Cloud:** AWS Cognito, S3, Lambda, DynamoDB, API Gateway, Amplify  
**Other Tools:** Google Maps API, vite-plugin-pwa, GitHub, Postman, VS Code

**Speaker Notes:**  
The frontend is built using React and Vite, styled with Tailwind. For the backend, I used AWS services like Cognito for user accounts, S3 for media, and Lambda for serverless functions. Amplify helped me deploy quickly.

**Slide 7: Features Implemented**

* Sign Up, Sign In, Confirm Account (Cognito)
* Forum Posts with Media Upload (S3 + DynamoDB)
* Dynamic Event Theming (useTheme hook)
* Event Map with Clickable Markers
* Workshop Cards & Detail Modals
* QR Code Navigation
* Offline Access & Installable PWA

**Speaker Notes:**  
Here are the main features I implemented. Users can sign up, view and post in forums with media, navigate workshops, and experience themed versions of the app based on the event selected.

**Slide 8: Challenges: Defining the Scope**

* Ambitious idea vs time constraints
* Learning AWS Cognito, IAM roles, and serverless functions
* Deciding what features to build and which to delay

**Speaker Notes:**  
A big challenge was scope. I had a lot of ideas, but limited time. Learning how to use tools like IAM and Cognito took longer than expected. I had to focus on a working skeleton and leave extras for future development.

**Slide 9: Future Improvements**

* Dynamic Event Loading from Database
* Persistent Calendar Sync (Google/Apple)
* Admin Dashboard for Event Management
* Push Notifications & Live Updates
* Improved Mobile Responsiveness

**Speaker Notes:**  
There’s still a lot I want to build. I plan to load events dynamically, allow users to sync their calendars, and let organisers manage event content through an admin dashboard. Notifications and mobile improvements are also on the list.

**Slide 10: Key Takeaways**

* Learned to build and structure a real full-stack application
* Gained confidence using cloud-native tools
* Saw value in reusability, scalability, and working iteratively
* Reinforced frontend/backend integration skills

**Speaker Notes:**  
This project helped me improve both technically and personally. I learned to balance ambition with delivery, and how to make architectural decisions based on usability and scale. It was a great hands-on learning experience.

**Slide 11: Thank You / Q&A**

* Open to questions
* Demo available on request

**Speaker Notes:**  
Thanks for listening. I’m happy to take any questions or show any part of the app again if you'd like to see how something works.