SQA Audit Package: "EventHub" Project

Project: EventHub

Company: Local-Connect Inc.

Date: November 6, 2025

Contents: This package contains internal documents for SQA audit purposes.

Artifact 1: Project-Overview.md

- **Project:** EventHub
- **Team:**
  - o 4 Developers (Alex - Sr., Ben - Jr., Sara - Jr., Kenji - Sr.)
  - o 1 Part-Time Project Manager (Mike)
  - o (Note: There is no dedicated QA engineer or team.)
- **Project Goal:**
  - o A simple, mobile-friendly web application for local community members to find and post local events (e.g., farmers' markets, charity runs, free concerts).

- **Tech Stack:**
  - o Frontend: React.js
  - o Backend: Firebase (Authentication, Firestore Database)
- **Current Status:**
  - o The project is in a public "Beta." The team is under pressure to launch new "Premium Event" features to secure more funding. However, the PM is spending most of his time handling user complaints about data errors, website crashes, and usability problems.

Artifact 2: Transcript of `bugs.xlsx`

(This is a transcription of the shared Excel Online spreadsheet used for bug tracking.)

ID	What's Broke?	Who Found It	Status	Notes
101	create event broken	user_jane	???	jane says it doesn't work.
102	firefox login	pm_mike	Looked at	alex says: "works for me in chrome"
103	Homepage text is 'lorem ipsum'	user_bob	CLOSED	Fixed by Sara.
104	big image crash	user_jane	OPEN	user_jane. seems bad.
105	event price not saving	dev_kenji	NEW	Found this while working on premium. Not my area.
106	payment fail	pm_mike	NEW	PM: CRITICAL!!
107	"My Events" slow	dev_alex	Won't Fix	Alex: "This is a performance issue, not a 'bug'. It's a 'nice to have'."
108	Create event button is ugly	user_bob	OPEN	
109	wrong date	user_jane	OPEN	This is the 3rd time jane has reported this.
110	*blank*	*blank*	*blank*	*blank*
111	Users can see other users' private event drafts	user_jane	Looked at	Alex: "Can't reproduce. Telling PM it's a caching blip."

Artifact 3: Email-Thread-Testing.eml

From: pm_mike@local-connect.com **To:** dev_alex@local-connect.com **Subject:** Quick question about testing

Hey Alex, An investor asked about our "test strategy." I wasn't sure what to tell them. What's our official process so I can answer?

From: dev_alex@local-connect.com **To:** pm_mike@local-connect.com **Subject:** Re: Quick question about testing

Hey Mike, To answer your question, our "test strategy" is pretty informal. We're moving too fast for a heavy process.

Basically, devs just build on a branch, and before they merge, they get another dev to do a quick "buddy check" - just click around for 5 mins to see if anything is obviously broken. If it looks good, we merge to `main` and it deploys.

We'll catch most of the real bugs when users report them. That's what "beta" is for.

Alex (Sr. Dev)

Artifact 4: Whiteboard_Meeting_Photo_Notes.txt

(This is a transcription of a slightly blurry photo of a whiteboard, taken after the weekly sync meeting.)

(In Black Marker - Main Notes):

- **GOAL:** `Premium Events` feature MUST SHIP by EOD Friday. (This is underlined 3 times and circled).
- **BLOCKERS:** None.
- **BUGS:** PM to triage new reports.
- **ACTION:** All devs to focus 100% on Premium feature.

(In Red Marker - Side-bar, in different handwriting):

- "Jane's 'data leak' issue" (Bug 111)
    - o Alex looked at it -> couldn't reproduce.
    - o Told PM it's probably a browser caching blip.
    - o **PM's Note: -> Let's keep this out of `bugs.xlsx` for now, don't want to panic investors.**

- "Payment bug (106)"
    - o Alex thinks it's a 1-off. Can't reproduce. -> Move to "Won't Fix"?
- "Junior Devs (Sara/Ben)"
    - o If time, fix 'low hanging fruit' / 'cosmetic bugs' from the list.

Artifact 5: RACI Chart for "Premium Event Launch"

(This was attached to the meeting notes from Artifact 4.)

Task / Deliverable	Mike (PM)	Alex (Sr.)	Kenji (Sr.)	Ben (Jr.)	Sara (Jr.)
Define Premium Feature Requirements	A	R	C	C	C
Develop Backend Payment Logic	I	A	R	I	I
Develop Frontend UI	I	I	C	R	R
Write Test Plan	A	A			
Execute Unit Tests	I	R	R		
Execute Integration Tests	I	R	C		
Execute System Tests	I			R	R
Final Quality Sign-off		R	R		
Deploy to Production	I	A	C	C	C

Artifact 6: Code Sample (`Event.java` and `EventTest.java`)

(A developer provided this sample when asked for their "unit tests".)

File: `Event.java`

```java
public class Event {
    private String title;
    private double price;
    private java.time.LocalDate eventDate;

    public Event(String title) {
        this.title = title;
    }

    // Returns true if price is set, false otherwise
    public boolean setPrice(double price) {
        if (price < 0) {
            return false;
        }
        this.price = price;
        return true;
    }

    // Returns true if date is set, false if date is in the past
    public boolean setEventDate(java.time.LocalDate date) {
        if (date.isBefore(java.time.LocalDate.now())) {
            return false;
        }
        this.eventDate = date;
        return true;
    }

    public double getPrice() {
        return this.price;
    }

    public java.time.LocalDate getEventDate() {
        return this.eventDate;
    }
}
```

File: `EventTest.java`

```java
import static org.junit.jupiter.api.Assertions.*;
import org.junit.jupiter.api.Test;
import java.time.LocalDate;

public class EventTest {

    private Event testEvent = new Event("Test Event");

    @Test
    public void testSetPrice() {
        // Test 1
        boolean result = testEvent.setPrice(10.00);
        assertEquals(true, result);
        assertEquals(10.00, testEvent.getPrice());

        // Test 2
        boolean result2 = testEvent.setPrice(-5.00);
        assertEquals(false, result2);
    }

    @Test
    public void testEventDate() {
        // This test proves the date logic works
        LocalDate futureDate = LocalDate.now().plusDays(10);
        testEvent.setEventDate(futureDate);
        System.out.println("Test passed, date is: " + testEvent.getEventDate());
    }

    @Test
    public void testPriceAndDate() {
        // This test depends on testSetPrice() running first
        // It checks that the price is still 10.00
        assertEquals(10.00, testEvent.getPrice());
    }
}
```

Artifact 7: Memo - Performance Test Plan

To: Team **From:** Alex **Date:** Nov 15, 2025 **Subject:** Plan for Performance Testing `Premium Events`

Mike asked how we'll make sure the new feature is fast. Here's my plan:

1. **Test Type:** We will run a **Stress Test** to make sure the system can handle our expected normal load of 1,000 concurrent users.
2. **Load Profile:** We will configure JMeter to ramp up 1,000 users over 10 minutes, and then hold that load for 30 minutes.
3. **Spike Test:** We will also do a spike test by running a second test at 1,500 users, also ramped up over 10 minutes.
4. **Acceptance:** The test passes if the site feels fast and we get an error rate below 10%.

This should be good enough to tell investors we are performance tested.

Artifact 8: Email - Ethical Concern

From: pm_mike@local-connect.com **To:** dev_sara@local-connect.com **CC:** dev_alex@local-connect.com
Subject: RE: User Jane's 'data leak' issue (Bug 111)

Hi Sara,

I know Alex couldn't reproduce this 'data leak' bug, but Jane is posting screenshots on social media and it's making us look awful to our investors. This is a PR nightmare.

I don't care if the bug is real or not. I need you to push a fix *today* that addresses her complaint.

Just add some code that, if her specific user account logs in, it shows a popup that says "Your account security has been updated." That way, we can tell her we've 'fixed' the issue and she'll stop posting.

This is a top priority, drop what you're doing and get this 'fix' out.

Thanks, Mike

Artifact 9: Acceptance Criteria for "Premium Events"

(This is a list of requirements from the PM for the new feature.)

- **AC-1:** The event creation process should be simple and user-friendly.
- **AC-2:** Users must be able to create a new "Premium Event" by paying a $50 fee.
- **AC-3:** The system should respond quickly when a user submits their payment.
- **AC-4 (Gherkin format):**
  - **Given** a user is on the "Create Event" page
  - **And** they have filled in all mandatory fields (Title, Date, Location)
  - **When** they check the "Make this a Premium Event" box
  - **Then** a payment form for "$50.00" should appear.
- **AC-5:** The new feature should not introduce any new bugs.

- **AC-6 (Gherkin format):**
  - **Given** a user has submitted a valid payment for a Premium Event
  - **When** they view their "My Events" page
  - **Then** the event should be listed with a "Premium" badge next to the title.
- **AC-7:** The premium event feature should be reliable and work most of the time.