To set up Firebase for your booking site and replace the placeholders in the code with your actual values, follow these step-by-step instructions. This assumes you're using Firebase Realtime Database (as in the provided code). If you don't have a Firebase account yet, sign up for free at (https://firebase.google.com) using a Google account.

Step 1: Create a Firebase Project
1. Go to the https://console.firebase.google.com/
2. Click **Add project** (or "Create a project" if it's your first one).
3. Enter a project name (e.g., "YachtBookingSite").
4. Optionally, enable Google Analytics (it's free and useful, but not required for this setup).
5. Click **Continue** and then **Create project**. Wait for it to initialize.

Step 2: Enable Realtime Database
1. In your new project's dashboard, click **Build > Realtime Database** in the left sidebar.
2. Click **Create Database**.
3. Choose a location (e.g., United States) for your database—pick one close to your users for better performance.
4. For security rules, start in Test mode (allows public read/write for 30 days—good for development). Later, you can lock it down (e.g., require authentication). Click **Enable**.
5. Your database is now live. Note the database URL shown (it'll look like `https://your-project-id-default-rtdb.firebaseio.com`).

Step 3: Get Your Firebase Config
1. In the Firebase Console, go back to your project overview.
2. Click the **gear icon** (settings) next to "Project Overview" in the top left.
3. Select **Project settings**.
4. Scroll down to the "Your apps" section.
5. If no app is added, click the **Web** icon (</>) to add a web app.
   - Enter an app nickname (e.g., "BookingSite").
   - Check the box for "Also set up Firebase Hosting" if you plan to host the site later (optional).
   - Click **Register app**.
6. Firebase will display a code snippet with your config object. It looks like this:

```
const firebaseConfig = {
  apiKey: "AIzaSy...your-api-key-here",
  authDomain: "your-project-id.firebaseapp.com",
  databaseURL: "https://your-project-id-default-rtdb.firebaseio.com",
  projectId: "your-project-id",
  storageBucket: "your-project-id.appspot.com",
  messagingSenderId: "123456789012",
  appId: "1:123456789012:web:abcdef123456"
};
```

7. Copy this entire object.

Step 4: Replace Placeholders in Your Code
In your HTML file (the one with the booking calendar code), find the `firebaseConfig` object and replace the placeholders with the values from Step 3. For example:

- YOUR_API_KEY` → Your actual `apiKey` (starts with "AIzaSy...").
- YOUR_PROJECT_ID` → Your project ID (from the config).
- And so on for the rest.

Updated example:

```
const firebaseConfig = {
  apiKey: "AIzaSy...your-actual-api-key",
  authDomain: "your-project-id.firebaseapp.com",
  databaseURL: "https://your-project-id-default-rtdb.firebaseio.com",
  projectId: "your-project-id",
  storageBucket: "your-project-id.appspot.com",
  messagingSenderId: "your-sender-id",
  appId: "your-app-id"
};
```

Save the file.

Step 5: Test the Setup
1. Open your HTML file in a browser (e.g., via a local server like Live Server in VS Code, or just double-click it).
2. The calendar should load. Try clicking a date to open the modal and make a test booking.
3. Bookings should appear on the calendar and in the "Upcoming Reservations" list in real-time (refresh another browser tab to simulate multiple users).
4. If nothing happens or you see errors in the browser console (right-click > Inspect > Console), common issues:
   - Check for typos in the config.
   - Ensure your Firebase database rules allow writes (in the console, go to Realtime Database > Rules, and set to `true` for read/write if in test mode).
   - Firewall/internet issues blocking Firebase.

Step 6: Security and Next Steps
Database Rules: After testing, update rules in the Firebase Console (Realtime Database > Rules) to something secure, like requiring authentication:

```
{
  "rules": {
    ".read": "auth != null",
    ".write": "auth != null"
  }
}
```

Add Firebase Authentication if needed (e.g., for user logins).
- **Add Authentication:** If you want only authorized users to book/cancel, integrate Firebase Auth (email/password or Google sign-in).
- **Hosting:** For production, host on Firebase Hosting: In console, Build > Hosting > Get started, then deploy your HTML file.
- **Costs:** Firebase is free for low usage; monitor in the console.

If you run into errors or need help with a specific part (e.g., share a screenshot of your config or console error), provide more details!