

# **The Play - Checklist 3 (Advanced Features Implementation)**

This in-depth checklist provides specific implementation steps to transform The Play from a basic prototype to a fully-featured event application with advanced capabilities and improved user experience.

## **1. User Profile System (Duration: 5 days)**

### **1.1. Create User Profile Page (Duration: 2 days)**



```

<!-- Create file: pages/app/profile.html -->
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Profile - The Play</title>
  <!-- Include your standard CSS and JS files here -->
  <link href="https://cdnjs.cloudflare.com/ajax/libs/tailwindcss/2.2.19/tailwind.min.css" rel="
  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0-beta3/
  <link rel="stylesheet" href="../../assets/styles/main.css">
  <link rel="stylesheet" href="../../assets/styles/variables.css">
  <link rel="stylesheet" href="../../assets/styles/layout.css">
  <link rel="stylesheet" href="../../assets/styles/components.css">

  <!-- Firebase Libraries -->
  <script src="https://www.gstatic.com/firebasejs/9.22.2/firebase-app-compat.js"></script>
  <script src="https://www.gstatic.com/firebasejs/9.22.2/firebase-auth-compat.js"></script>
  <script src="https://www.gstatic.com/firebasejs/9.22.2/firebase-firestore-compat.js"></script>
  <script src="https://www.gstatic.com/firebasejs/9.22.2/firebase-storage-compat.js"></script>
  <script src="../../scripts/firebase/config.js"></script>
</head>
<body class="bg-gray-100">
  <!-- Header Container -->
  <div id="header-container"></div>

  <!-- Main Content -->
  <div class="container mx-auto px-4 py-8">
    <div class="max-w-4xl mx-auto">
      <!-- Profile Header -->
      <div class="bg-white rounded-xl shadow-md overflow-hidden mb-6">
        <div class="bg-gradient-to-r from-purple-600 to-pink-500 h-48 relative">
          <!-- Edit Cover Button -->
          <button id="edit-cover" class="absolute top-4 right-4 bg-white bg-opacity-25 p-2 rour
            <i class="fas fa-camera text-white"></i>
          </button>

          <!-- Profile Picture -->
          <div class="absolute -bottom-16 left-8">
            <div class="w-32 h-32 rounded-full border-4 border-white bg-gray-200 overflow-hidde
              </i> Change

```

```

        </button>
    </div>
</div>
</div>

<div class="p-6 pt-20">
    <div class="flex justify-between items-start">
        <div>
            <h1 id="user-display-name" class="text-2xl font-bold">User Name</h1>
            <p id="user-email" class="text-gray-600">user@example.com</p>
            <p id="user-join-date" class="text-sm text-gray-500 mt-1">Joined May 2025</p>
        </div>
        <button id="edit-profile" class="btn-secondary text-sm">
            <i class="fas fa-edit mr-2"></i> Edit Profile
        </button>
    </div>

    <div class="flex items-center mt-6 space-x-8">
        <div class="text-center">
            <p class="text-xl font-bold" id="count-events">0</p>
            <p class="text-gray-600 text-sm">Events Attended</p>
        </div>
        <div class="text-center">
            <p class="text-xl font-bold" id="count-bookmarks">0</p>
            <p class="text-gray-600 text-sm">Bookmarked</p>
        </div>
        <div class="text-center">
            <p class="text-xl font-bold" id="count-vibes">0</p>
            <p class="text-gray-600 text-sm">Vibe Checks</p>
        </div>
    </div>
</div>
</div>

<!-- Tabs Navigation -->
<div class="flex border-b border-gray-200 mb-6">
    <button class="py-2 px-4 tab-active profile-tab" data-tab="bookmarked">Bookmarked</button>
    <button class="py-2 px-4 text-gray-600 profile-tab" data-tab="attending">Attending</button>
    <button class="py-2 px-4 text-gray-600 profile-tab" data-tab="past">Past Events</button>
    <button class="py-2 px-4 text-gray-600 profile-tab" data-tab="vibes">Vibe Checks</button>
</div>

<!-- Tabs Content -->
<div id="tab-bookmarked" class="tab-content">

```

```

<div id="bookmarked-events" class="grid grid-cols-1 md:grid-cols-2 lg:grid-cols-3 gap-6"
  <!-- Bookmarked events will be loaded here -->
  <div class="text-center py-12 col-span-full hidden" id="no-bookmarks">
    <p class="text-gray-500">You haven't bookmarked any events yet.</p>
    <a href="index.html" class="btn-primary inline-block mt-4">Discover Events</a>
  </div>
</div>
</div>

<div id="tab-attending" class="tab-content hidden">
  <div id="attending-events" class="grid grid-cols-1 md:grid-cols-2 lg:grid-cols-3 gap-6"
    <!-- Attending events will be loaded here -->
    <div class="text-center py-12 col-span-full hidden" id="no-attending">
      <p class="text-gray-500">You haven't RSVP'd to any upcoming events.</p>
      <a href="index.html" class="btn-primary inline-block mt-4">Discover Events</a>
    </div>
  </div>
</div>

<div id="tab-past" class="tab-content hidden">
  <div id="past-events" class="grid grid-cols-1 md:grid-cols-2 lg:grid-cols-3 gap-6">
    <!-- Past events will be loaded here -->
    <div class="text-center py-12 col-span-full hidden" id="no-past">
      <p class="text-gray-500">You haven't attended any events yet.</p>
    </div>
  </div>
</div>

<div id="tab-vibes" class="tab-content hidden">
  <div id="user-vibes" class="grid grid-cols-1 md:grid-cols-2 gap-6">
    <!-- Vibe checks will be loaded here -->
    <div class="text-center py-12 col-span-full hidden" id="no-vibes">
      <p class="text-gray-500">You haven't posted any vibe checks yet.</p>
      <button class="btn-primary inline-block mt-4 open-vibe-modal">Post a Vibe Check</button>
    </div>
  </div>
</div>
</div>

<!-- Edit Profile Modal -->
<div id="modal-container"></div>

<!-- Scripts -->

```

```

<script type="module">
  import { loadComponent } from '../scripts/utils/component-loader.js';
  import userProfile from '../scripts/components/profile.js';
  import errorHandler from '../scripts/utils/error-handler.js';

  document.addEventListener('DOMContentLoaded', function() {
    // Load header component
    loadComponent('header-container', '../components/header.html');

    // Load the edit profile modal
    loadComponent('modal-container', '../components/modals/edit-profile-modal.html');

    // Initialize user profile
    initializeProfile();

    // Set up tab switching
    const tabs = document.querySelectorAll('.profile-tab');
    tabs.forEach(tab => {
      tab.addEventListener('click', function() {
        // Update tab styling
        tabs.forEach(t => {
          t.classList.remove('tab-active');
          t.classList.add('text-gray-600');
        });
        tab.classList.add('tab-active');
        tab.classList.remove('text-gray-600');

        // Show selected tab content
        const tabName = tab.getAttribute('data-tab');
        document.querySelectorAll('.tab-content').forEach(content => {
          content.classList.add('hidden');
        });
        document.getElementById(`tab-${tabName}`).classList.remove('hidden');

        // Load content for the selected tab
        loadTabContent(tabName);
      });
    });

    // Set up open vibe modal button
    document.querySelectorAll('.open-vibe-modal').forEach(btn => {
      btn.addEventListener('click', function() {
        import('../scripts/components/modals.js')
          .then(module => {

```

```

        module.openModal('vibeCheckModal');
    });
});
});
});

```

```

async function initializeProfile() {
    try {
        // Check authentication
        const user = firebase.auth().currentUser;
        if (!user) {
            // Wait for auth state to be determined
            firebase.auth().onAuthStateChanged(user => {
                if (user) {
                    loadUserProfile(user);
                } else {
                    window.location.href = '../auth/login.html';
                }
            });
        } else {
            loadUserProfile(user);
        }
    } catch (error) {
        errorHandler.showError('Failed to load profile. Please try again later.');
```

```

        console.error('Profile initialization error:', error);
    }
}

```

```

async function loadUserProfile(user) {
    try {
        // Load user data
        await userProfile.initialize();

        // Update profile UI
        document.getElementById('user-display-name').textContent = userProfile.getDisplayName()
        document.getElementById('user-email').textContent = user.email;

        // Set profile pic
        const profilePic = document.getElementById('user-profile-pic');
        profilePic.src = userProfile.getPhotoURL();

        // Set join date
        if (userProfile.userData && userProfile.userData.createdAt) {
            const joinDate = new Date(userProfile.userData.createdAt.toDate());

```

```

    const options = { year: 'numeric', month: 'long' };
    document.getElementById('user-join-date').textContent = `Joined ${joinDate.toLocaleDate
}

// Set up profile pic change
document.getElementById('edit-profile-pic').addEventListener('click', changeProfilePict

// Set up cover change
document.getElementById('edit-cover').addEventListener('click', changeCoverPhoto);

// Set up edit profile button
document.getElementById('edit-profile').addEventListener('click', function() {
    import('../scripts/components/modals.js')
    .then(module => {
        module.openModal('editProfileModal');
    });
});

// Load initial tab (bookmarked)
loadTabContent('bookmarked');

// Load counts
loadUserCounts();
} catch (error) {
    errorHandler.showError('Failed to load profile data.');
```

console.error('Error loading user profile:', error);

```

}
}

async function loadUserCounts() {
    const db = firebase.firestore();
    const user = firebase.auth().currentUser;

    if (!user) return;

    try {
        // Get bookmarks count
        const bookmarksSnapshot = await db.collection('bookmarks')
            .where('userId', '==', user.uid)
            .get();
        document.getElementById('count-bookmarks').textContent = bookmarksSnapshot.size;

        // Get attending count (upcoming events)
        const now = new Date();
```



```

const attendingSnapshot = await db.collection('attendees')
  .where('userId', '==', user.uid)
  .where('eventDate', '>=', now)
  .get();
document.getElementById('count-events').textContent = attendingSnapshot.size;

// Get vibe checks count
const vibesSnapshot = await db.collection('vibeChecks')
  .where('userId', '==', user.uid)
  .get();
document.getElementById('count-vibes').textContent = vibesSnapshot.size;
} catch (error) {
  console.error('Error loading user counts:', error);
}
}

```

```

async function loadTabContent(tabName) {
  const db = firebase.firestore();
  const user = firebase.auth().currentUser;

  if (!user) return;

  try {
    switch (tabName) {
      case 'bookmarked':
        // Load bookmarked events
        const bookmarks = await loadBookmarkedEvents();
        if (bookmarks.length === 0) {
          document.getElementById('no-bookmarks').classList.remove('hidden');
        } else {
          document.getElementById('no-bookmarks').classList.add('hidden');
        }
        break;

      case 'attending':
        // Load events user is attending
        const attending = await loadAttendingEvents();
        if (attending.length === 0) {
          document.getElementById('no-attending').classList.remove('hidden');
        } else {
          document.getElementById('no-attending').classList.add('hidden');
        }
        break;
    }
  }
}

```

```

    case 'past':
        // Load past events
        const past = await loadPastEvents();
        if (past.length === 0) {
            document.getElementById('no-past').classList.remove('hidden');
        } else {
            document.getElementById('no-past').classList.add('hidden');
        }
        break;

    case 'vibes':
        // Load user's vibe checks
        const vibes = await loadUserVibes();
        if (vibes.length === 0) {
            document.getElementById('no-vibes').classList.remove('hidden');
        } else {
            document.getElementById('no-vibes').classList.add('hidden');
        }
        break;
    }
} catch (error) {
    console.error(`Error loading ${tabName} content:`, error);
    errorHandler.showToast(`Failed to load ${tabName} content.`, 'error');
}
}

async function loadBookmarkedEvents() {
    const containerId = 'bookmarked-events';
    const container = document.getElementById(containerId);
    container.innerHTML = '';

    try {
        // Get user bookmarks
        const bookmarks = await userProfile.getBookmarkedEvents();

        // Import event card creator and display events
        const eventsModule = await import('../scripts/components/events.js');
        bookmarks.forEach(event => {
            eventsModule.createEventCard(event, containerId);
        });

        return bookmarks;
    } catch (error) {
        console.error('Error loading bookmarked events:', error);
    }
}

```

```
    return [];  
  }  
}
```

```
async function loadAttendingEvents() {  
  // Similar implementation to LoadBookmarkedEvents  
  // This would load events the user has RSVP'd to  
  return [];  
}
```

```
async function loadPastEvents() {  
  // Load past events the user has attended  
  return [];  
}
```

```
async function loadUserVibes() {  
  // Load vibe checks posted by the user  
  return [];  
}
```

```
function changeProfilePicture() {  
  const fileInput = document.createElement('input');  
  fileInput.type = 'file';  
  fileInput.accept = 'image/*';  
  
  fileInput.addEventListener('change', async (event) => {  
    if (event.target.files.length > 0) {  
      const file = event.target.files[0];  
  
      try {  
        // Show Loading state  
        errorHandler.showToast('Uploading profile picture...', 'info');  
  
        // Upload to Firebase Storage  
        const storageRef = firebase.storage().ref();  
        const fileRef = storageRef.child(`profile-pics/${firebase.auth().currentUser.uid}`)  
  
        await fileRef.put(file);  
        const downloadURL = await fileRef.getDownloadURL();  
  
        // Update user profile  
        await firebase.auth().currentUser.updateProfile({  
          photoURL: downloadURL  
        });  
      }  
    }  
  });  
}
```

```

    // Update in Firestore
    await userProfile.updateProfile({
      photoURL: downloadURL
    });

    // Update UI
    document.getElementById('user-profile-pic').src = downloadURL;

    errorHandler.showToast('Profile picture updated!', 'success');
  } catch (error) {
    console.error('Error uploading profile picture:', error);
    errorHandler.showToast('Failed to update profile picture.', 'error');
  }
}

fileInput.click();
}

function changeCoverPhoto() {
  // Similar to changeProfilePicture but for cover photo
  alert('Cover photo upload will be implemented in a future update');
}
</script>
</body>
</html>

```

## 1.2. Create Edit Profile Modal (Duration: 1 day)

html



```

// Close modal functionality
document.querySelectorAll('#editProfileModal .close-modal-btn').forEach(btn => {
  btn.addEventListener('click', function() {
    const modal = document.getElementById('editProfileModal');
    modal.classList.add('hidden');
    document.body.style.overflow = 'auto';
  });
});

// Close when clicking outside
document.getElementById('editProfileModal').addEventListener('click', function(e) {
  if (e.target === this) {
    this.classList.add('hidden');
    document.body.style.overflow = 'auto';
  }
});

// Initialize form with user data
document.addEventListener('DOMContentLoaded', function() {
  import('../scripts/components/profile.js')
    .then(module => {
      const userProfile = module.default;

      // Load user profile data
      userProfile.initialize().then(() => {
        if (userProfile.userData) {
          document.getElementById('display-name').value = userProfile.userData.displayName ||
          document.getElementById('bio').value = userProfile.userData.bio || '';
          document.getElementById('location').value = userProfile.userData.location || '';
          document.getElementById('instagram').value = userProfile.userData.instagram || '';
        }
      });
    });
});

// Form submission
document.getElementById('edit-profile-form').addEventListener('submit', async function(e) {
  e.preventDefault();

  const module = await import('../scripts/components/profile.js');
  const userProfile = module.default;
  const errorHandler = (await import('../scripts/utils/error-handler.js')).default;

  try {
    // Show Loading state

```

```

const submitBtn = this.querySelector('button[type="submit"]');
submitBtn.disabled = true;
submitBtn.innerHTML = '<i class="fas fa-spinner fa-spin mr-2"></i> Saving...';

// Get form values
const displayName = document.getElementById('display-name').value.trim();
const bio = document.getElementById('bio').value.trim();
const location = document.getElementById('location').value.trim();
const instagram = document.getElementById('instagram').value.trim();

// Validate display name
if (!displayName) {
  errorHandler.showToast('Display name is required', 'error');
  submitBtn.disabled = false;
  submitBtn.innerHTML = 'Save Changes';
  return;
}

// Update profile
await userProfile.updateProfile({
  displayName,
  bio,
  location,
  instagram
});

// Update display name in Firebase Auth
await firebase.auth().currentUser.updateProfile({
  displayName: displayName
});

// Update UI
document.getElementById('user-display-name').textContent = displayName;

// Close modal
document.getElementById('editProfileModal').classList.add('hidden');
document.body.style.overflow = 'auto';

// Show success message
errorHandler.showToast('Profile updated successfully', 'success');
} catch (error) {
  console.error('Error updating profile:', error);
  errorHandler.showToast('Failed to update profile', 'error');
} finally {

```



```
// Reset button
const submitBtn = this.querySelector('button[type="submit"]');
submitBtn.disabled = false;
submitBtn.innerHTML = 'Save Changes';
}
});
});
</script>
```

### 1.3. Enhance User Profile Module (Duration: 2 days)

javascript

```

// Enhance file: scripts/components/profile.js
class UserProfile {
  constructor() {
    this.currentUser = null;
    this.userData = null;
    this.isInitialized = false;
    this.profileListeners = [];
  }

  async initialize() {
    if (this.isInitialized) return;

    // Wait for Firebase Auth to initialize
    if (!firebase.auth().currentUser) {
      await new Promise(resolve => {
        const unsubscribe = firebase.auth().onAuthStateChanged(user => {
          this.currentUser = user;
          unsubscribe();
          resolve();
        });
      });
    } else {
      this.currentUser = firebase.auth().currentUser;
    }

    if (this.currentUser) {
      await this.loadUserData();
      this.setupRealTimeUpdates();
    }

    this.isInitialized = true;
    return this.userData;
  }

  setupRealTimeUpdates() {
    // Remove any existing listeners
    this.profileListeners.forEach(unsubscribe => unsubscribe());
    this.profileListeners = [];

    // Set up listener for user profile changes
    const db = firebase.firestore();
    const userDocRef = db.collection('users').doc(this.currentUser.uid);
  }
}

```

```

const unsubscribe = userDocRef.onSnapshot(doc => {
  if (doc.exists) {
    this.userData = doc.data();
    // Notify UI components that might need updating
    this.notifyProfileUpdate();
  }
}, error => {
  console.error('Error in user profile snapshot listener:', error);
});

this.profileListeners.push(unsubscribe);
}

notifyProfileUpdate() {
  // Custom event to notify UI components of profile updates
  const event = new CustomEvent('user-profile-updated', {
    detail: {
      userData: this.userData
    }
  });
  document.dispatchEvent(event);
}

async loadUserData() {
  if (!this.currentUser) return null;

  try {
    const db = firebase.firestore();
    const doc = await db.collection('users').doc(this.currentUser.uid).get();

    if (doc.exists) {
      this.userData = doc.data();
      return this.userData;
    } else {
      // Create user profile if it doesn't exist
      const userData = {
        email: this.currentUser.email,
        displayName: this.currentUser.displayName || this.currentUser.email.split('@')[0],
        photoURL: this.currentUser.photoURL || null,
        createdAt: new Date(),
        lastLogin: new Date(),
        bio: '',
        location: '',
        instagram: '',
      };
    }
  }
}

```

```

        preferences: {
            eventTypes: [],
            notificationsEnabled: true
        }
    };

    await db.collection('users').doc(this.currentUser.uid).set(userData);
    this.userData = userData;
    return userData;
}
} catch (error) {
    console.error('Error loading user data:', error);
    return null;
}
}

getDisplayName() {
    if (this.userData && this.userData.displayName) {
        return this.userData.displayName;
    }

    if (this.currentUser) {
        return this.currentUser.displayName || this.currentUser.email.split('@')[0];
    }

    return 'User';
}

getPhotoURL() {
    if (this.userData && this.userData.photoURL) {
        return this.userData.photoURL;
    }

    if (this.currentUser && this.currentUser.photoURL) {
        return this.currentUser.photoURL;
    }

    return '/api/placeholder/100/100';
}

async updateProfile(data) {
    if (!this.currentUser) return false;

    try {

```

```

    const db = firebase.firestore();
    await db.collection('users').doc(this.currentUser.uid).update({
      ...data,
      updatedAt: new Date()
    });

    // Refresh user data
    return await this.loadUserData();
  } catch (error) {
    console.error('Error updating profile:', error);
    throw error;
  }
}

async getBookmarkedEvents() {
  if (!this.currentUser) return [];

  try {
    const db = firebase.firestore();
    const snapshot = await db.collection('bookmarks')
      .where('userId', '==', this.currentUser.uid)
      .get();

    const bookmarkIds = snapshot.docs.map(doc => doc.data().eventId);

    if (bookmarkIds.length === 0) return [];

    // Get the actual events
    const eventsSnapshot = await db.collection('events')
      .where(firebase.firestore.FieldPath.documentId(), 'in', bookmarkIds)
      .get();

    return eventsSnapshot.docs.map(doc => {
      return {
        id: doc.id,
        ...doc.data()
      };
    });
  } catch (error) {
    console.error('Error getting bookmarked events:', error);
    return [];
  }
}

```

```

async getAttendingEvents() {
  if (!this.currentUser) return [];

  try {
    const db = firebase.firestore();
    const now = new Date();

    // Get events the user is attending that haven't happened yet
    const snapshot = await db.collection('attendees')
      .where('userId', '==', this.currentUser.uid)
      .where('eventDate', '>=', now)
      .get();

    const eventIds = snapshot.docs.map(doc => doc.data().eventId);

    if (eventIds.length === 0) return [];

    // Get the actual events
    const eventsSnapshot = await db.collection('events')
      .where(firebase.firestore.FieldPath.documentId(), 'in', eventIds)
      .get();

    return eventsSnapshot.docs.map(doc => {
      return {
        id: doc.id,
        ...doc.data()
      };
    });
  } catch (error) {
    console.error('Error getting attending events:', error);
    return [];
  }
}

```

```

async getPastEvents() {
  if (!this.currentUser) return [];

  try {
    const db = firebase.firestore();
    const now = new Date();

    // Get events the user attended that have already happened
    const snapshot = await db.collection('attendees')
      .where('userId', '==', this.currentUser.uid)

```

```
.where('eventDate', '<', now)
.get();

const eventIds = snapshot.docs.map(doc => doc.data().eventId);

if (eventIds.length === 0) return [];

// Get the actual events
const eventsSnapshot = await db.collection('events')
  .where(firebase.firestore.FieldPath.documentId(), 'in',
```