**AllReviewsScreen Implementation Documentation**

**Overview**

Implementation of the AllReviewsScreen feature in TripBook Android app with review details, commenting, liking, and flagging functionality.

**Project Info:**

* Feature: AllReviewsScreen
* Platform: Android (Kotlin + Jetpack Compose)
* Date: [June 1st 2025]
* Developer: [Tchamabe Martine Carole]

**Key Features**

**Hero Image Carousel**

* Horizontal scrollable gallery with gradient overlay
* LazyRow implementation with Coil image loading
* 350dp responsive cards with proper scaling

**Interactive Rating System**

* 5-star visual rating with gold filled stars(just displayed but implemented by my group mate)
* Displays numerical rating (X.0 format)

**Like & Flag System**

* Like: Toggle heart icon with real-time counter (10-50 initial range)
* Flag: Report functionality with orange accent
* Visual feedback with background color changes

**Comments System**

* Horizontal scrolling comment cards with user avatars
* Multi-line comment input (3-5 lines) with image attachment
* Real-time timestamp and author information
* Shared storage integration for persistence

**Technical Implementation**

**Data Model**

data class Comment(

val id: String,

val text: String,

val imageUri: String?,

val timestamp: String,

val authorName: String

)

**State Management**

* Compose state handling with remember and mutableStateOf
* LazyColumn/LazyRow for efficient scrolling
* CommentStorage integration for data persistence

**Image Handling**

* Coil for async image loading and caching
* ActivityResultContracts for image picker
* Preview system with removal functionality

**Testing Results**

* **Functional Testing:** All features working (review display, image carousel, like/flag toggles, comment creation)
* **Performance:** <500ms screen load time, 60fps scrolling, efficient memory usage

**Dependencies**

implementation "androidx.compose.material3:material3"

implementation "io.coil-kt:coil-compose"

implementation "androidx.activity:activity-compose"

**Future Enhancements**

* Comment reply system
* User profile integration
* Offline caching
* Push notifications





