Events List (epic)

> ℹ️ **As a user** I'd like to know upcoming events
>
> **AND** learn the details of each event

> ℹ️ **Acceptance Criteria**
>
> 1. Events list is displayed as a root screen in the app that is displayed as opened on app launch by default and can be navigated on **Events** navigation button click
> 2. List item contains event **name**, **date** and **start time**
> 3. Each item in the list should open the corresponding event in a web browser when the appropriate cell is tapped
> 4. The list should be cached for 1 hour to improve UX and reduce HTTP requests
> 5. Network activity should be indicated via the Android ProgressBar
> 6. The user should be able to pull to refresh the list and override the cache at any point.
>   **No AB test needed, no tracking needed, no localisation needed.**

> ℹ️ **API documentation**
>
> https://api.seatgeek.com/2/events?client_id=MjE3MTU3MjV8MTYxODQxMDMzNS44NzY4MDQ4

> 🗒️ **Questions and comments**
>
> **AC 1**
>
> If the list is empty, should we show placeholder? - Yes
>
> **AC 2**
>
> The time is coming in UTC, should we adapt it to device local time? - Yes
> Should we ellipses text on the end of the item or make it multiline? - Let's ellipsize on the end
>
> Should we use name or short_name from server data for title? - Name
>
> **AC 3**
>
> Should we should error message on item click when there is no internet connection? - Let's keep it as future improvement (Jira ticket should be here)
>
> Edge case: What if no browser is installed on the device, should we signal user on failed to open issue? - Toast with message should be shown
>
> **AC 4**
>
> Should we count timeout for 1h data cache from the first page load time? - Yes
>
> Should we take timeout to RemoteConfig? - Let's keep it as future improvement (Jira ticket should be here)
>
> **Question**
>
> While testing it was observed that sometimes old events (start date is in the past) are coming from API, should we filter them out?

Ui Component	Requirement
Title	Should be ellipsized on the end Design element: **Title**
Date and time	Design element: **SecondaryText** Should be ellipsized on the end Date and time format: **Thu, 12 Dec 2019 19:00**
Navigation Bar button	Label: **Events**
Toolbar	Absent
List	Empty state placeholder: **No upcoming events at the moment**
No app to open the link error	Error message: **There is no browser installed on your device to open the link**

Design

YA Book Club Featuring Scythe

Thu, 12 Dec 2019 19:00

⭐

YA Book Club Featuring Scythe

Thu, 12 Dec 2019 19:00

⭐

YA Book Club Featuring Scythe

Thu, 12 Dec 2019 19:00

⭐

YA Book Club Featuring Scythe

Thu, 12 Dec 2019 19:00

⭐

YA Book Club Featuring Scythe

Thu, 12 Dec 2019 19:00

⭐

YA Book Club Featuring Scythe

Thu, 12 Dec 2019 19:00

☆

YA Book Club Featuring Scythe

Thu, 12 Dec 2019 19:00

☆

YA Book Club Featuring Scythe

Thu, 12 Dec 2019 19:00

⭐

YA Book Club Meeting

Fri, 27 Dec 2019 19:00

☆

Romance Book Club

Sun, 08 Dec 2019 12:00

☆

Technical Implementation Notes

Jira Ticket TP - 001 Screen with bottom navigation bar

1. Activity with bottom navigation bar
2. Fixed portrait orientation (as there is no landscape design)
3. Design scheme for colours should be prepared
4. No tablet support
5. Dark theme support
6. Timber implementation for logging with startup initialisation

Jira Ticket TP - 002 Endpoint integration with basic adapter

1. API investigation: paging, sorting, on if-since-modified mode
2. Data structure investigation (ex.: name or short name issue)
3. Endpoint integration (usecase, api service, data models, repository, mappers)
4. Basic item list is shown on screen (vertical slicing)
5. Error handling

Jira Ticket TP - 003 Database and cache

1. Table with server data cache contains generated_id, server_id, name, date, url
2. Table with local data cache contains server_id, previous_page, next_page for 2 side pagination support
3. Sort events by date
4. Uniqueness index of id to avoid data duplication
5. DateTime index to increase speed of sorting while taking data from database
6. Paging source + relation for reactive data update on UI (if event is updated in the database, the ui is updated automatically)
7. RemoteMediator: the list should be cached for 1 hour to improve UX and reduce HTTP requests

Jira Ticket TP - 004 Adapt date and time to device local time

1. Adapt date and time to device local time
2. Keep date and time in UTC in database

Jira Ticket TP - 005 List item design, open url on item click

1. Pagination adapter implementation (paging 3.0)
2. Pagination adapter should be connected with fragment lifecycle
3. Use payload to update icon without redrawing the whole item
4. Prepare design widgets/styles for Title, Body and Secondary text
5. Title and subtitle should be ellipsized on the end
6. Date and time formatting
7. Open url on item click
8. Process no browser installed case
9. Footer with loading state
10. Footer with error state: no internet connection state processing for the next page with retry button
11. Android accessibility support (big font size)

Jira Ticket TP - 006 Pull to refresh

1. Add pull to refresh to the layout
2. Update data and clean cache

Jira Ticket TP - 007 Cover flow with UI test

1. Check list visibility, list scrolling, pull to refresh, browser opening on item click