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Mobile Screen Lifecycle

Topics

- Mobile Screen Lifecycle Overview
- App & Screen Events
- Opening the App
- Navigating Between Screens
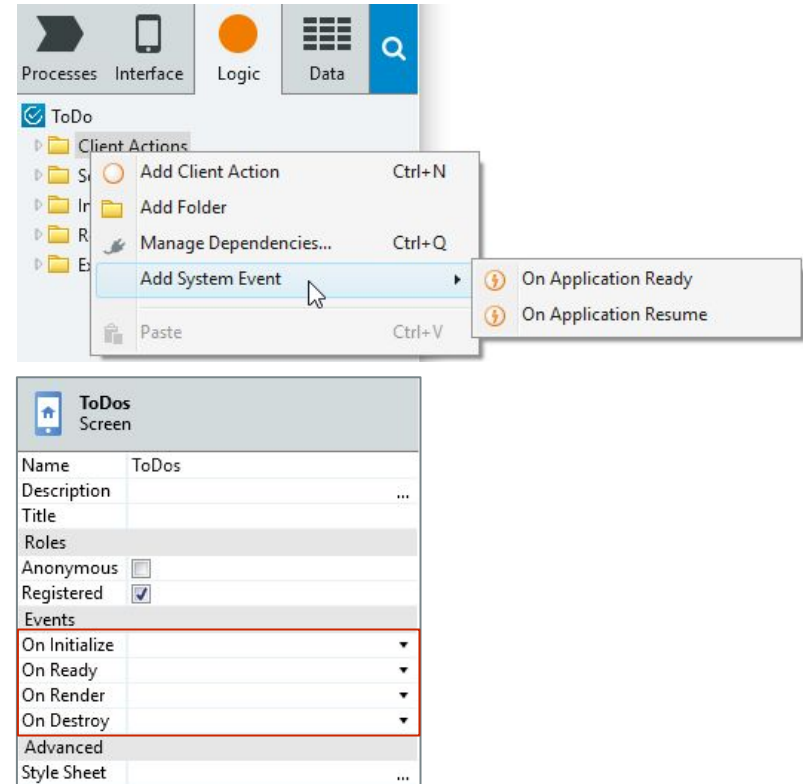- Lifecycle Event Handlers

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Mobile Screen Lifecycle

- Screens in mobile app exist in the device

- Transitioning from a Screen to another have different steps
  - Server is only needed for querying the database or executing server-side code
  - Events during the transition can be used in the application logic

- Application triggers Events to signal changes
  - Share data about change
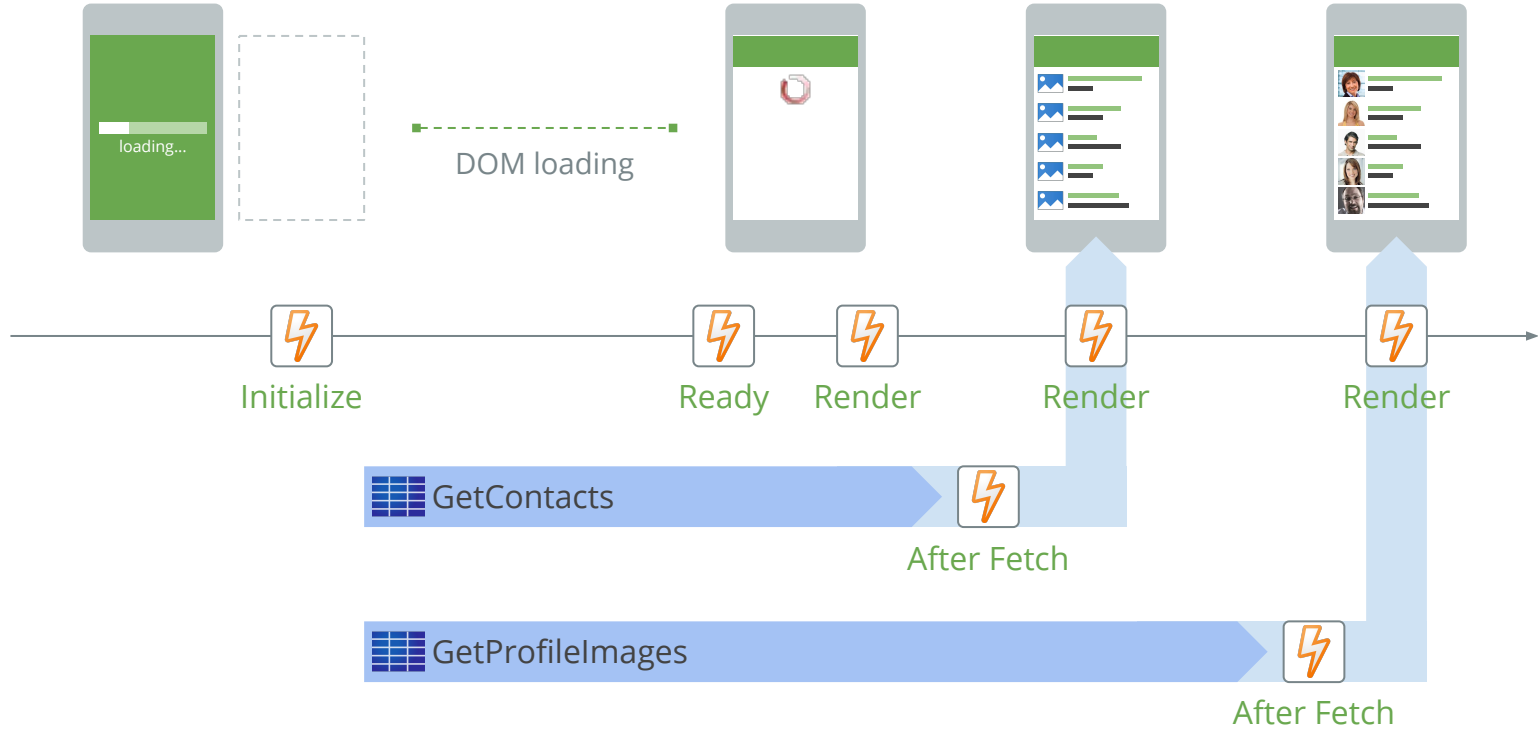 - Handlers to react to changes
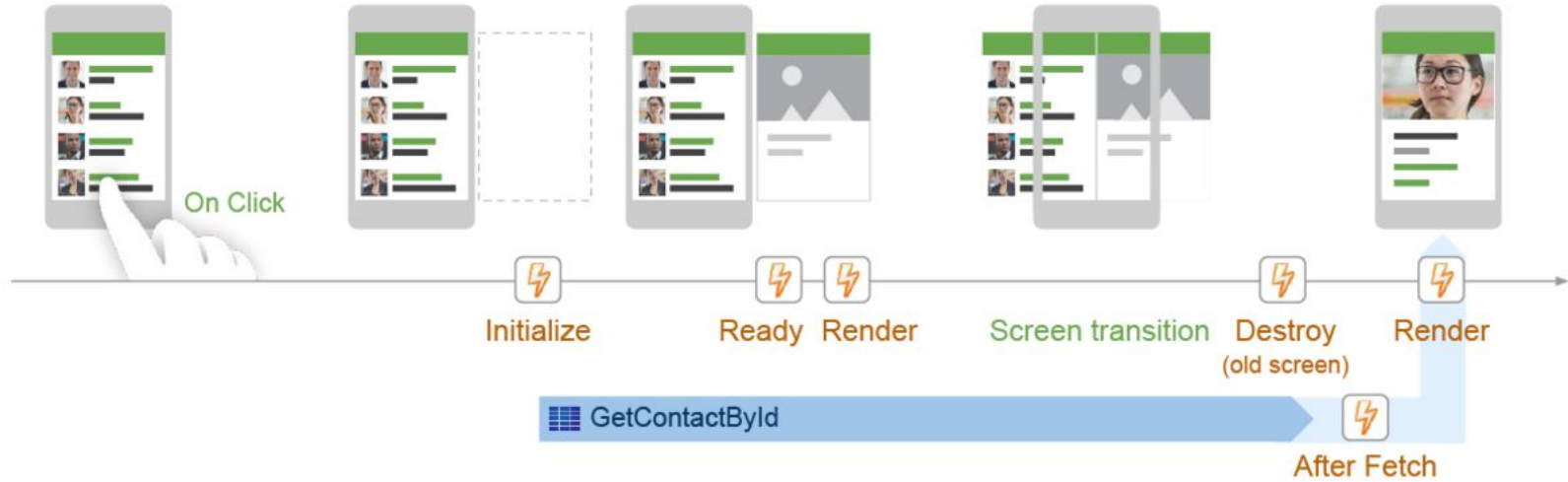
App & Screen Events

- App Events
  - On Application Ready
    - Executed when the application is loading
  - On Application Resume
    - Executed when the application is returning from background to foreground

- Screen Lifecycle Events
  - OnInitialize
  - OnReady
  - OnRender
  - OnDestroy

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Opening the App

DOM loading

Initialize   Ready   Render   Render   Render

GetContacts

After Fetch

GetProfileImages

After Fetch

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Navigating Between Screens

On Click

Initialize   Ready   Render   Screen transition   Destroy (old screen)   Render

GetContactById

After Fetch

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Navigating Between Screens

On Click   Initialize   Ready   Render   Screen transition   Destroy (old screen)   Render

GetContactById

After Fetch

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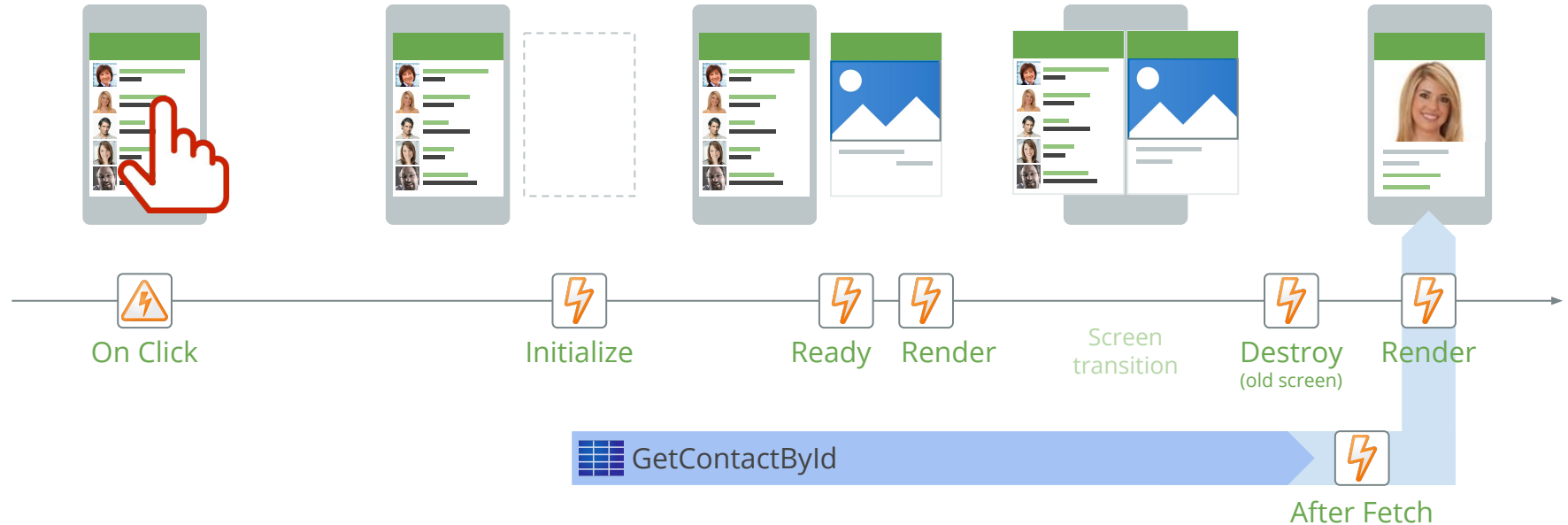
Lifecycle Event Handlers

On Initialize	Occurs after checking the permission of the user to access the Screen, but before navigating to the Screen and fetching data. You can use it to initialize the Screen, by setting its default data.
On Ready	Occurs after the Screen DOM is ready. You can use it to manipulate the DOM.
On Render	Occurs right after the Screen On Ready Event handler and every time the data of a Screen changes. You can use it to update some third-party component.
On Destroy	Occurs before destroying a Screen and removing it from the DOM. You can use it to implement logic when the component is disposed.
On After Fetch	Occurs after an Aggregate or Data Action has finished fetching data, but before the data is rendered on the Screen.You can use it to act upon the retrieved data.

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Summary

- Mobile Screen Lifecycle Overview
- App & Screen Events
- Opening the App
- Navigating Between Screens
- Lifecycle Event Handlers

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Thank You!