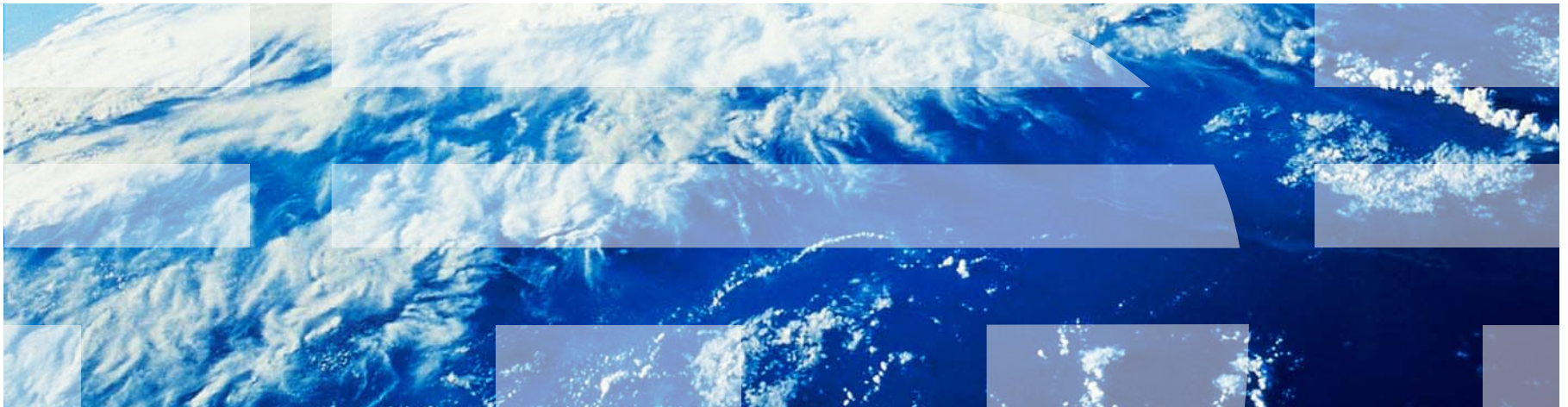# IBM Worklight V6.1.0
Getting Started

Accelerating application development by reusing resources

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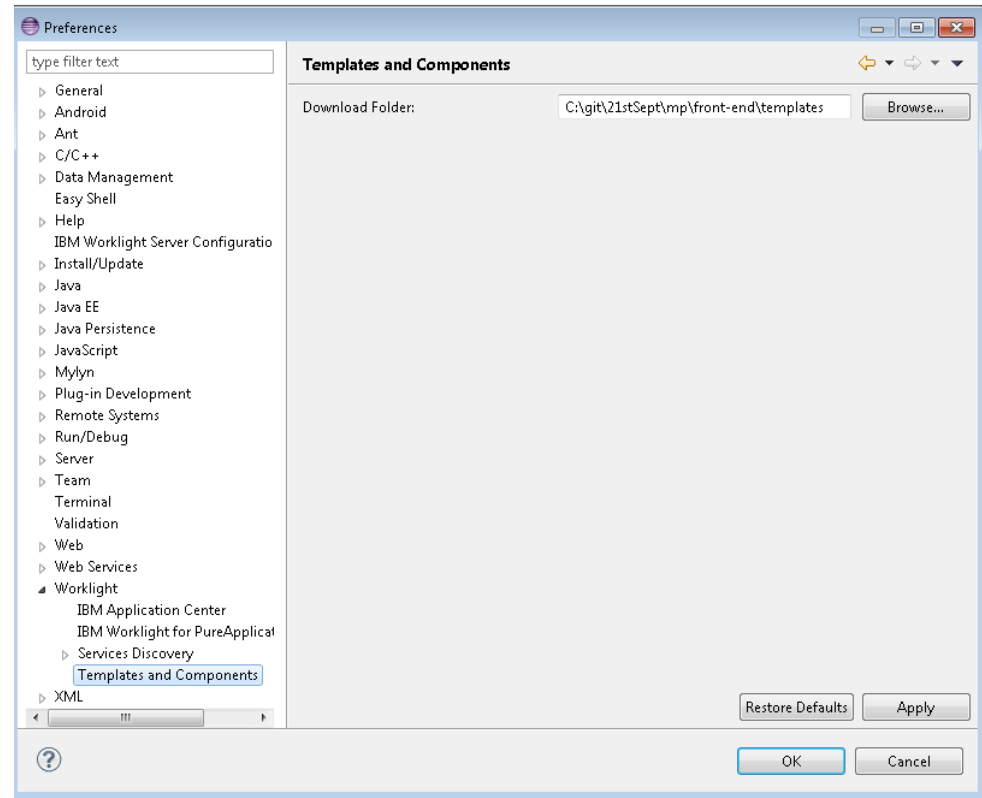
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Agenda

- Configuring application components and project template preferences

- Application components
  - Create application components
  - Add application components
  - Remove application components

- Worklight project templates
  - Create Worklight project templates
  - Add Worklight project templates

- Exercises

Configuring application components and project template preferences

- To add application components or IBM Worklight® project templates, you must identify a download folder.

- The download folder must only contain the application components or the Worklight project template archives.

- Set the download folder in **Preferences > Worklight > Templates and Components > Download Folder**.

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Application components

- An application component is a reusable library that developers can add to their applications. It can be a client-side library or a server runtime block.

- Typical libraries might handle basic functions such as login or payments. They can also contain various elements such as non-visual runtime objects, visual components, integration adapters, and user interface screen packages.

- The application components must be downloaded in the **Download folder** as specified in the **Window > Preferences > Worklight** menu.

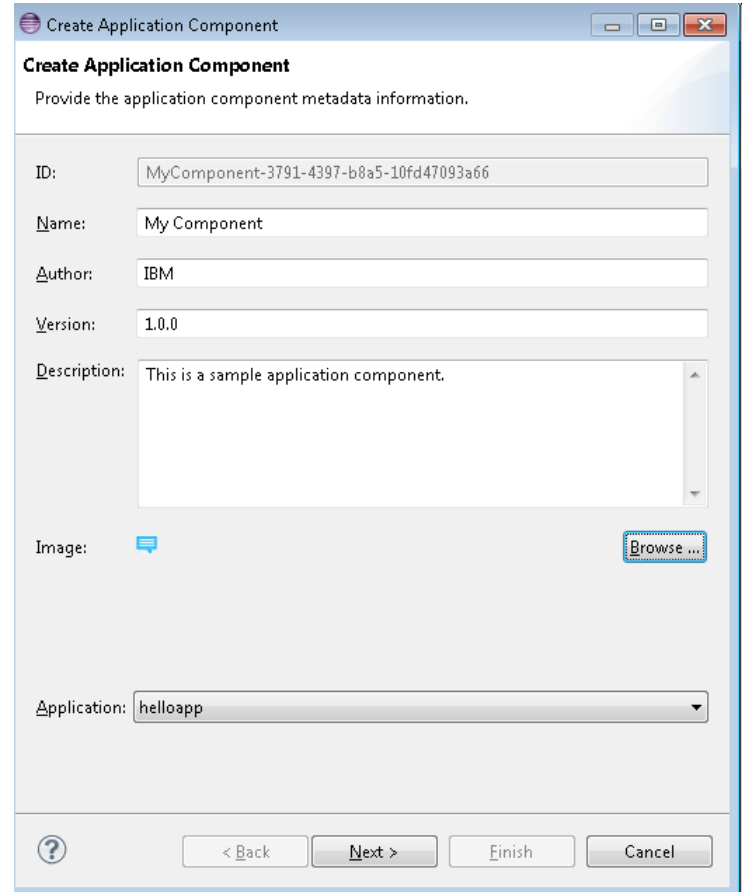- The application components support only Worklight hybrid projects.

Create application components (1 of 3)

- You can use only a Worklight hybrid project to create application components.

- Based on the user's discretion, selected resources of the Worklight hybrid project can be included in the application component.

- The created application component is in archive format.

- Right-click the Worklight hybrid project and select **Create Application Component**.

- A wizard guides you through the process of creating the application component.

  – For more information about this wizard, see the user documentation.
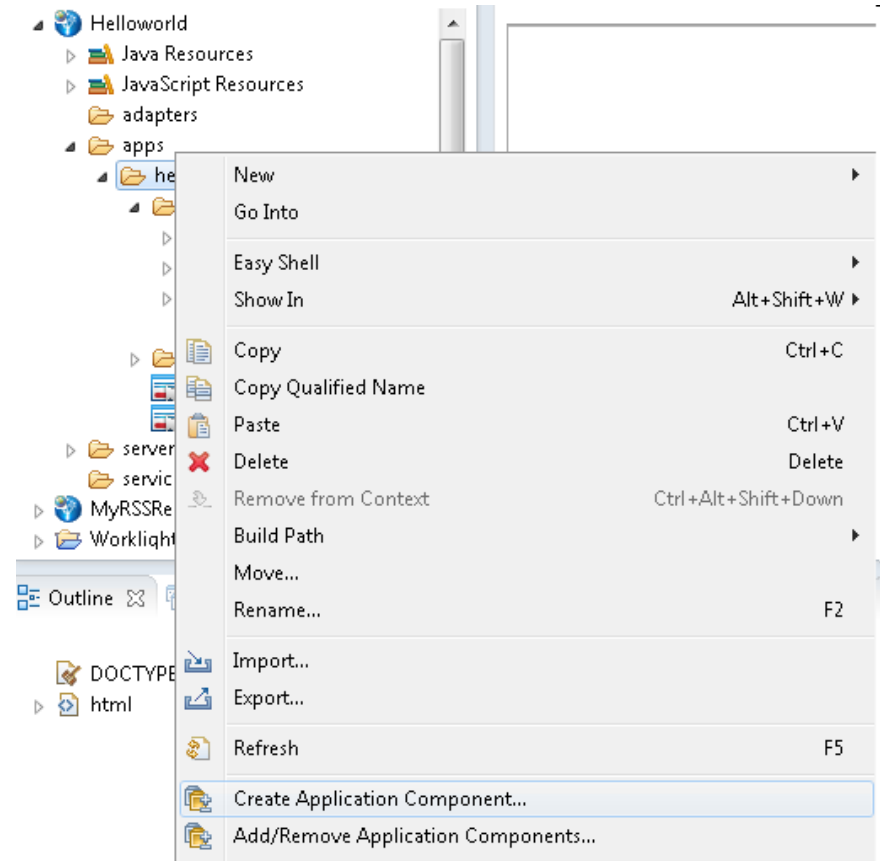
Create application components (2 of 3)

- The first page of the wizard prompts for the application component metadata information that you must enter.
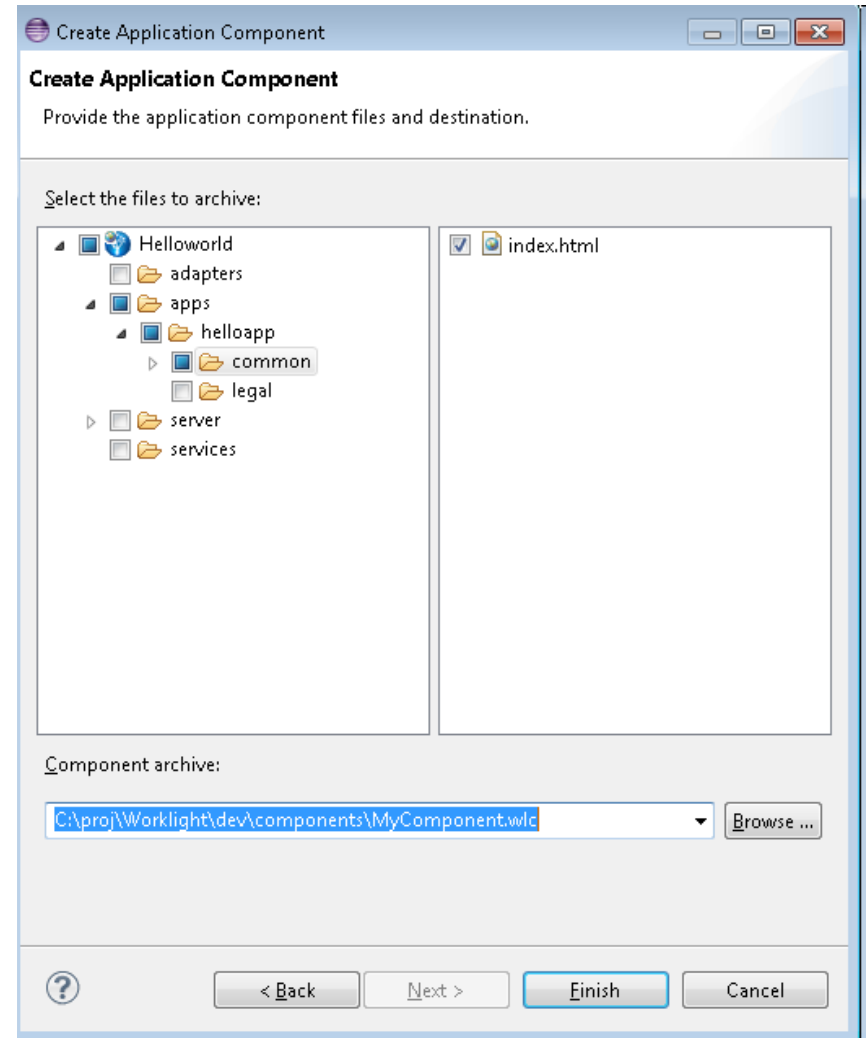
Create application components (3 of 3)

- The next page of the wizard prompts you to select the files that you want to include in the application component archive.

- After the creation of the application component archive, if you want to add additional optional hooks to enable automation when using the application component, refer to the section **Adding hooks to an application component** in the documentation.

Add application components (1 of 4)

- You can add application components only to Worklight hybrid applications.

- A hybrid project must be created before adding any application component.

- The basic information about the application components is displayed.

- The application components are loaded from the configured **Download folder**.

- Right-click the Worklight hybrid project, and select **Add/Remove Application Components**.
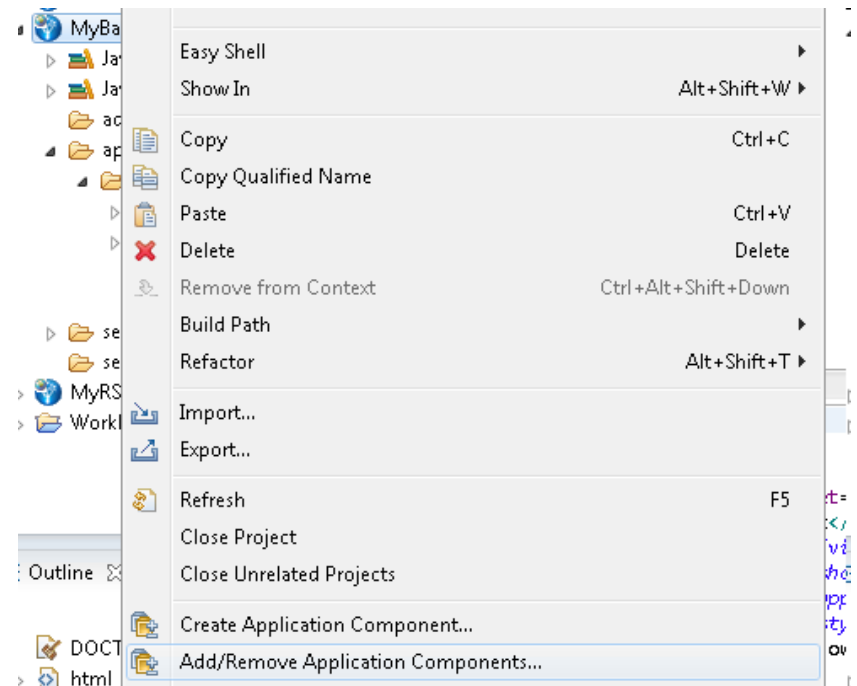
Add application components (2 of 4)

- The application components are scanned in the Download folder.

- Only valid application components are displayed in the Add and Remove application components wizard.

- Each component is displayed along with the Thumbnail, Name, Author and Version.

- Each component has a check-box besides it.

- The application components that you select are installed in the target Worklight project.
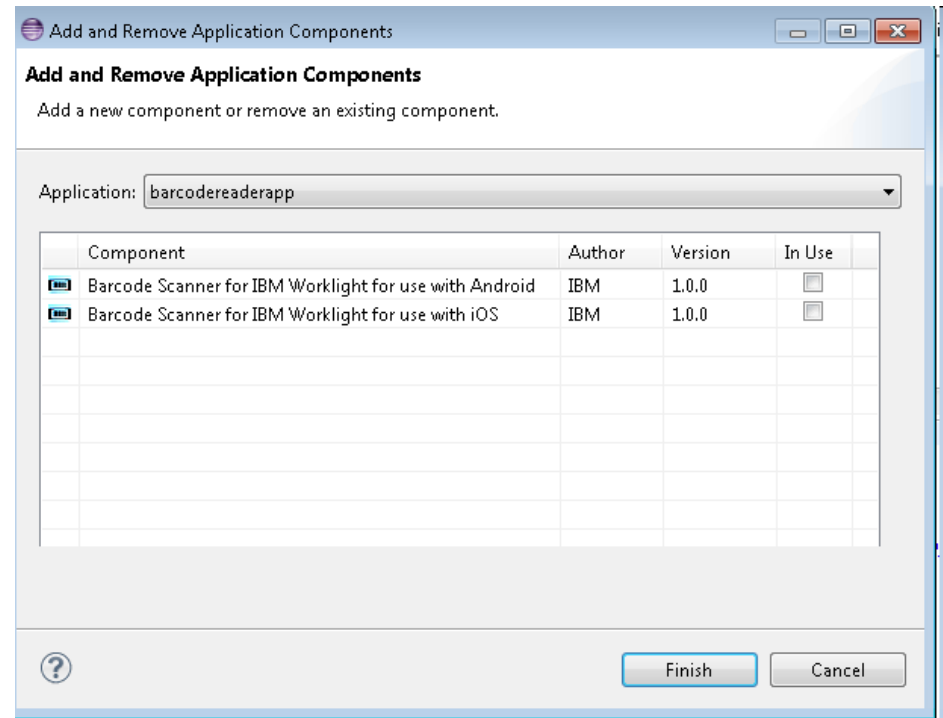
Add application components (3 of 4)

- The addition status of the application component is displayed after the activity is completed.

- The component resources are marked with the unique ID of the application component.
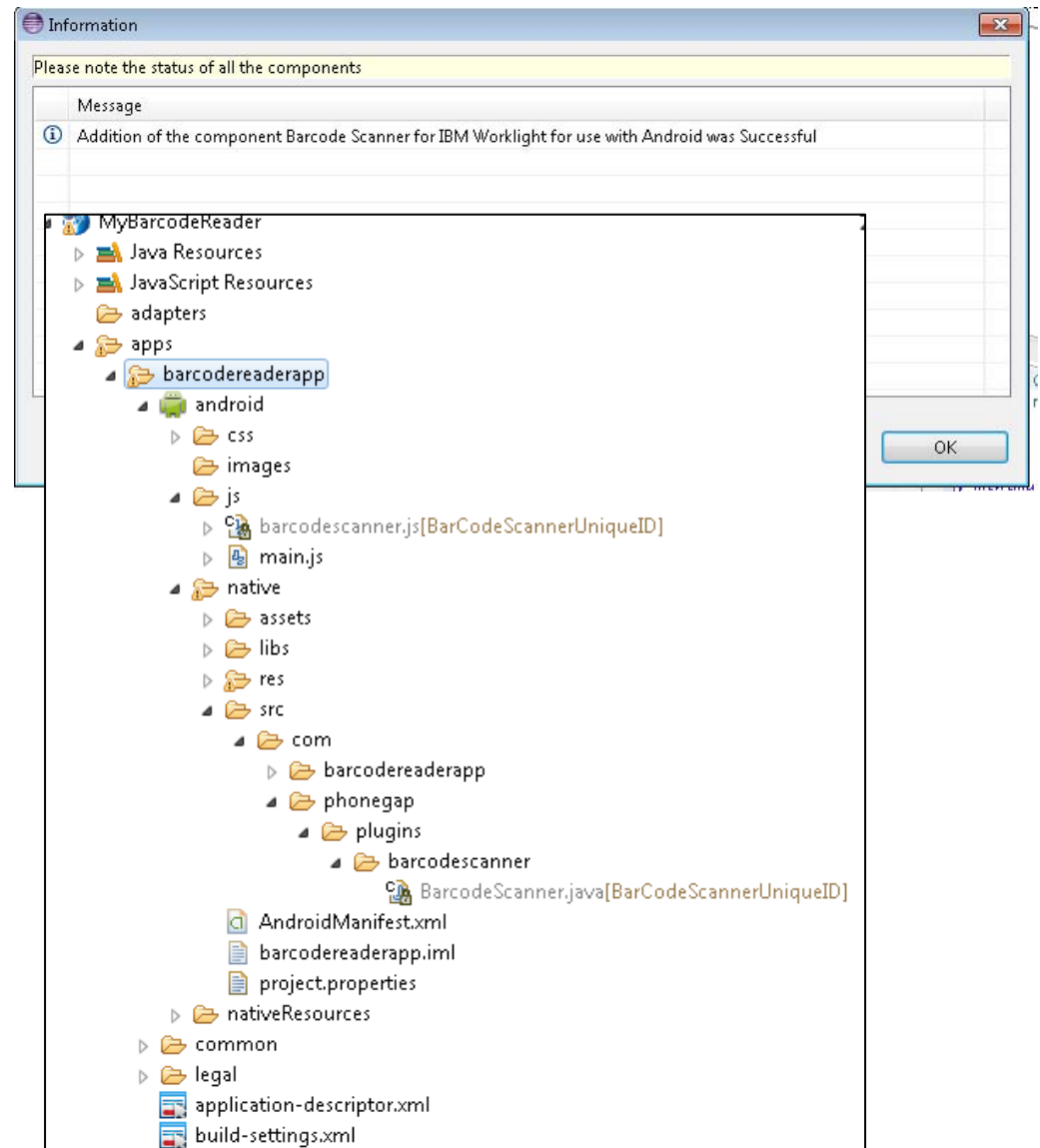
Add application components (4 of 4)

- Ensure that the prerequisite Worklight environments are created before you add the application component, otherwise error messages are displayed.

- If the required Android SDK is not installed on the hosting Worklight Studio, the appropriate message is displayed.

- If the contents of the application components or the Worklight applications are renamed, the linkage with the application component is broken.

- The application component files are read-only and you should not modify them.
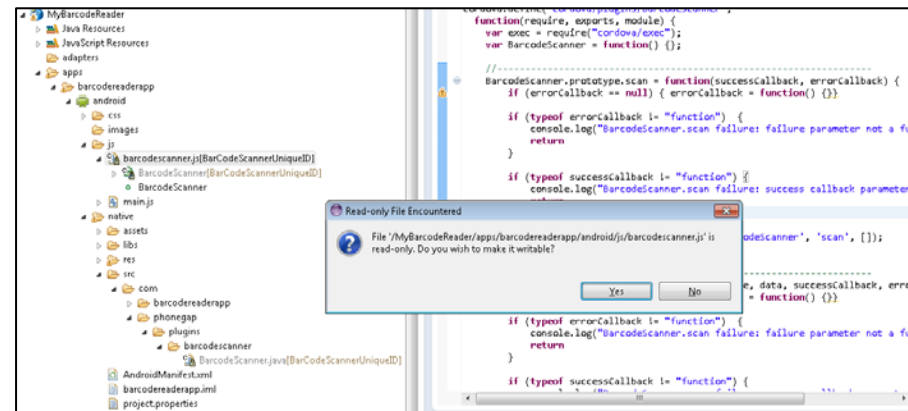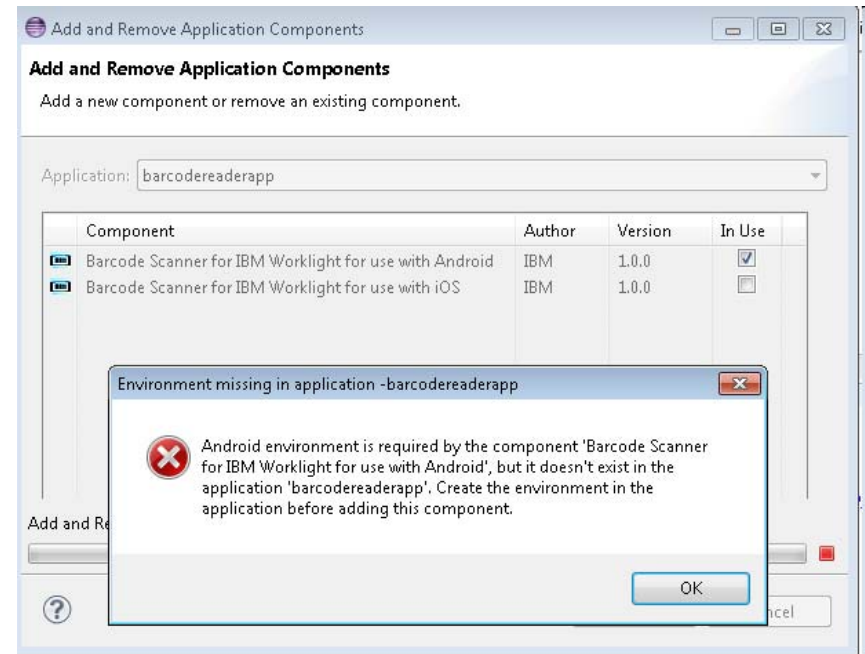
Remove application components (1 of 2)

- Right-click a Worklight hybrid project and select **Add/Remove Application Component**.

- Select the required application.

- Marks in the **In Use** column indicate the installed application components on the particular Worklight hybrid project.

- Clear the marks against the application components that you want to remove.
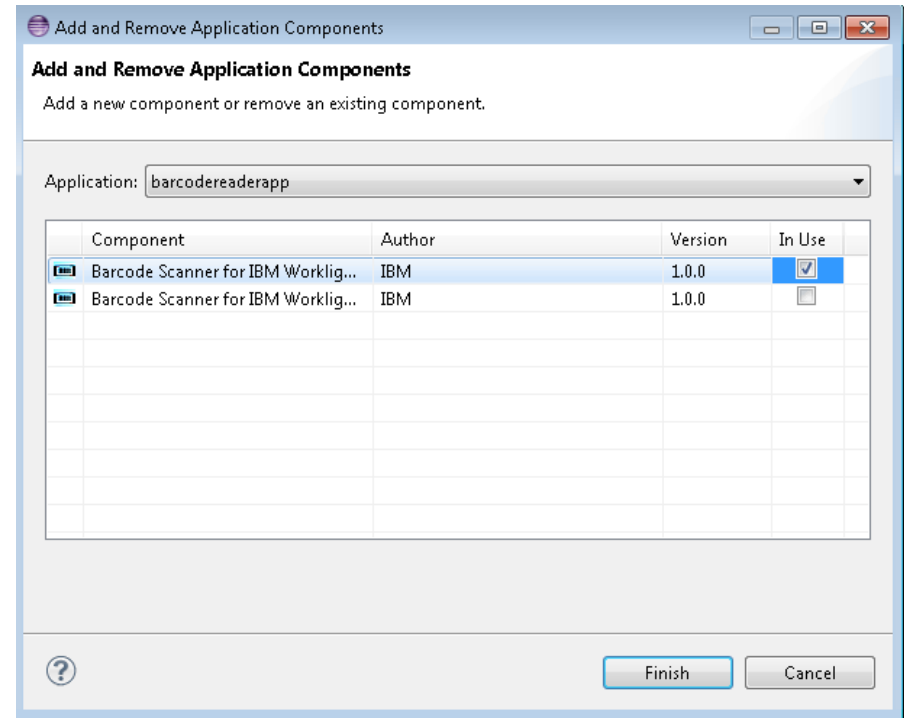
Remove application components (2 of 2)

- When removing some application components, you will be prompted to confirm whether to roll back the resource to its original content. Example : Removal of a UserPermission element will prompt you to confirm removal.

- The removal status of the application component is displayed after the removal activity is done.

- On successful removal of the application components, the original contents of the Worklight hybrid project resources are restored.
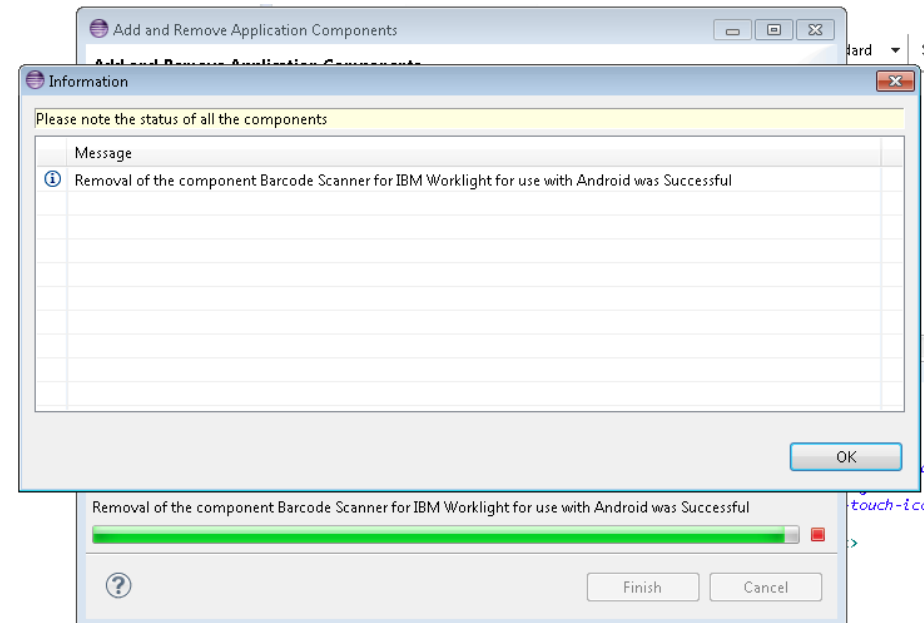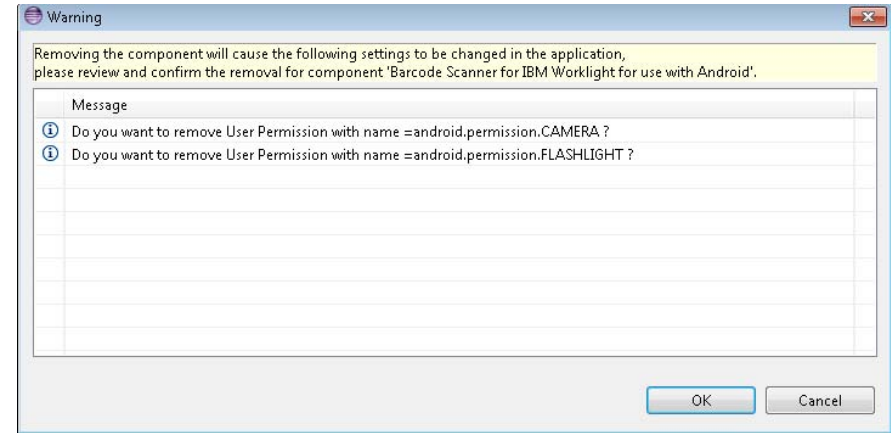
Agenda

- Configuring application components and project template preferences

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- Worklight project templates
  - Create Worklight project templates
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Worklight project templates

- With Worklight project templates, you can accelerate the development of applications by not having to start from scratch.

- You can use Worklight project templates to provide value-added services; you can add elements that are consistent with the look and feel of your brand.

- The Worklight project templates are of hybrid type only.

- The Worklight project templates created from the newer version of Worklight are not supported in the older versions.
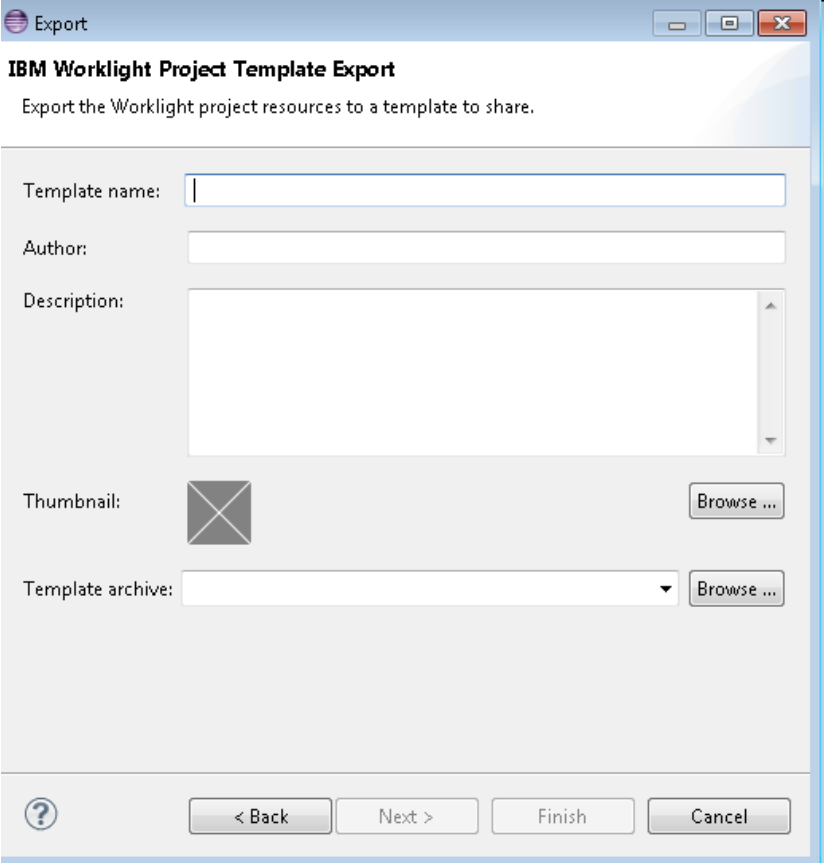
Create Worklight project templates (1 of 2)

- A user can export Worklight hybrid projects as Templates for re-usability.

- Right-click a Worklight project and click **Export > IBM Worklight > Worklight Project Template.**
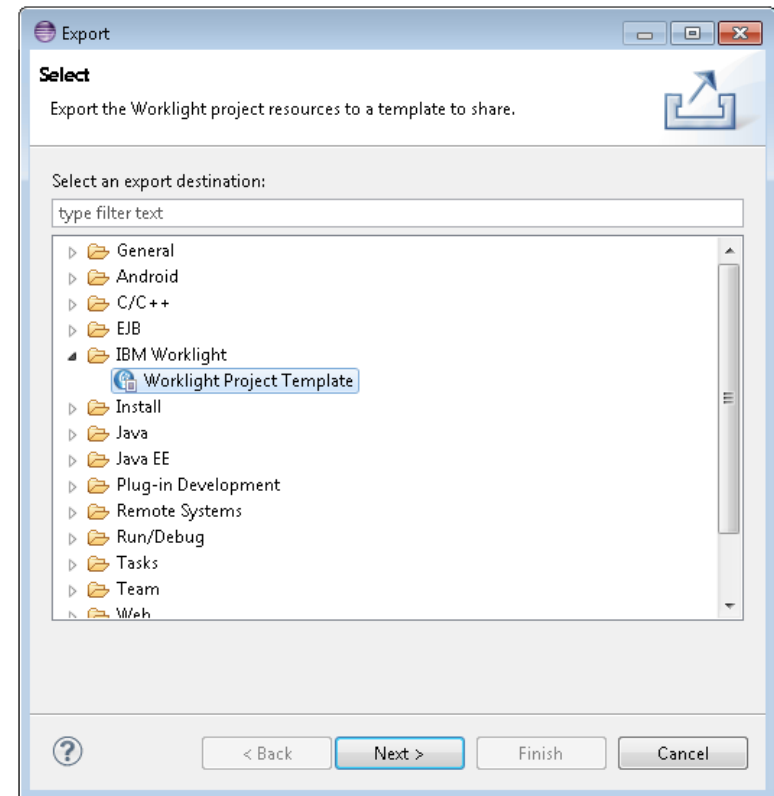
Create Worklight project templates (2 of 2)

- On the Export page, enter basic information for the Worklight project template, such as **Template name**, **Author**, **Description**, **Thumbnail**, and **Template archive**.

- Valid extensions for Template archives are `.zip` and `.wlt`.

- All the fields are mandatory in this wizard.

- The Template archive is created at the selected location.

- The structure of the Template archive is described in the documentation.

Add Worklight project templates (1 of 3)

- Use the **Shared Templates** option to create a Worklight project from a template.

- Click the **Create a Worklight Artifact** icon on the toolbar. For more information, see the IBM Worklight user documentation.

- In the **Name** field, provide a name for the Worklight project.

- From the **Project Templates** list, click **Shared Templates**.

- Click **Next**.
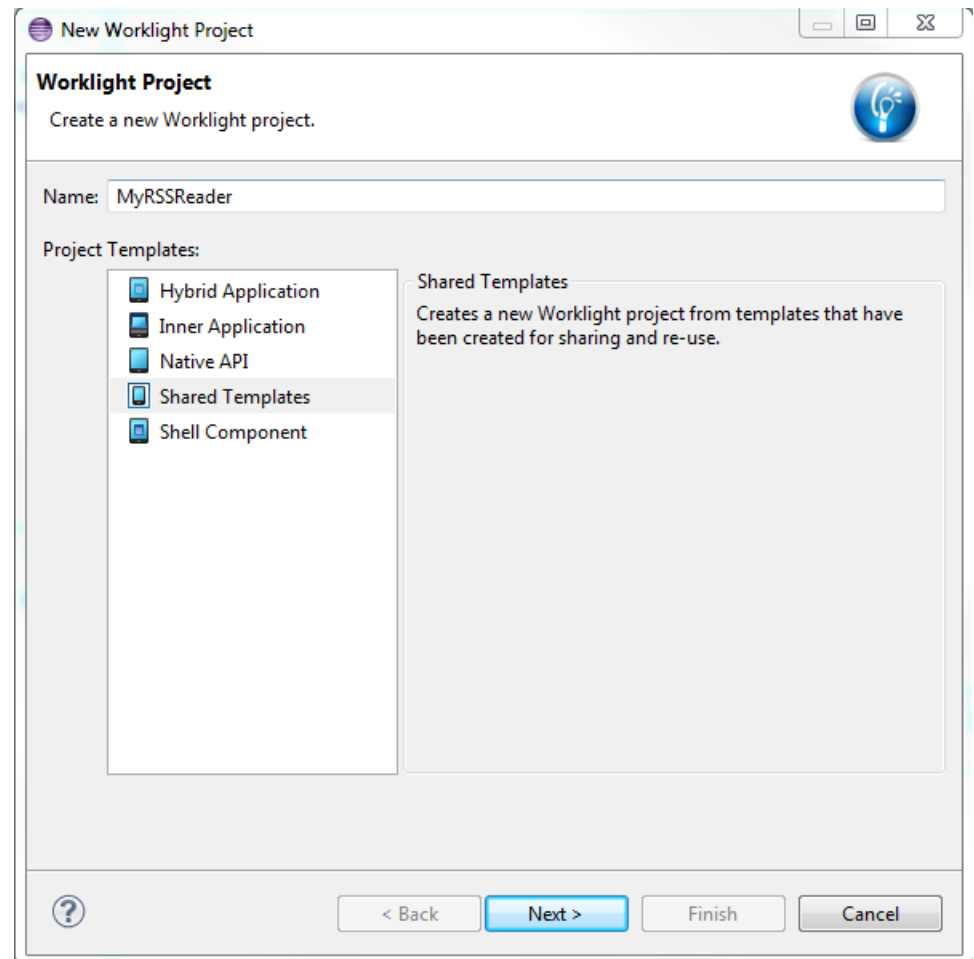
Add Worklight project templates (2 of 3)

- The Worklight project templates are loaded from the configured Download folder (as explained in **Configuring application components and Template preferences** section).

- Provide an application name

- Select the required Worklight project template.
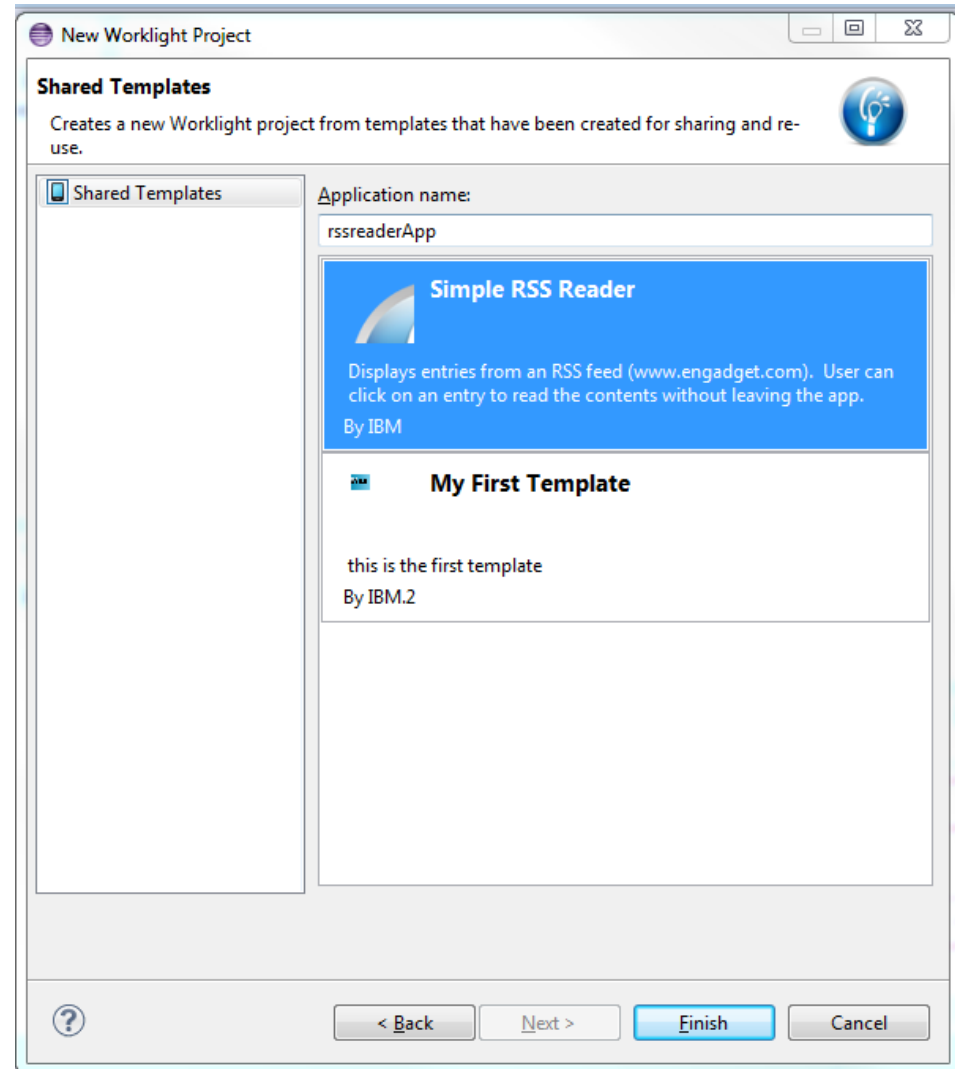
Add Worklight project templates (3 of 3)

- A Worklight hybrid project is created with the contents of the Worklight project template archive.

- To view the FIXME tags, if any, click **Project > Properties > General > Editors > Structured Text Editors >Task Tags**.

  – Click **Enable searching for Task Tags**.

  – Click **Apply > OK**.

  – A **Task** tab is visible with the Tasks to be done.

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Exercise – Worklight project templates (1 of 2)

- Use the HelloWorklight application that you created earlier.

- Edit the `apps\HelloWorklightApp\common\js\ initOptions.js` file

- Add // FIXME: Uncomment the initialization options as required.

- Save the `initOptions.js` file.

- Export the HelloWorklight application as a Worklight project template by using the option **Create a Worklight Project Template**.

- In the **Template name** field, enter: `HelloWorld Template`

- Verify that the archive contents match the description in the documentation.

- Switch to a new Worklight Studio workspace.

Export

IBM Worklight Project Template Export

Export the Worklight project resources to a template to share.

Template name: HelloWorld Template

Author: IBM

Description: This is a Hello World Template.

Thumbnail:

Template archive: C:\projects\Worklight\dev\MyHelloWorldTemplate.wlt   [Browse ...]

[< Back]   [Next >]   [Finish]   [Cancel]
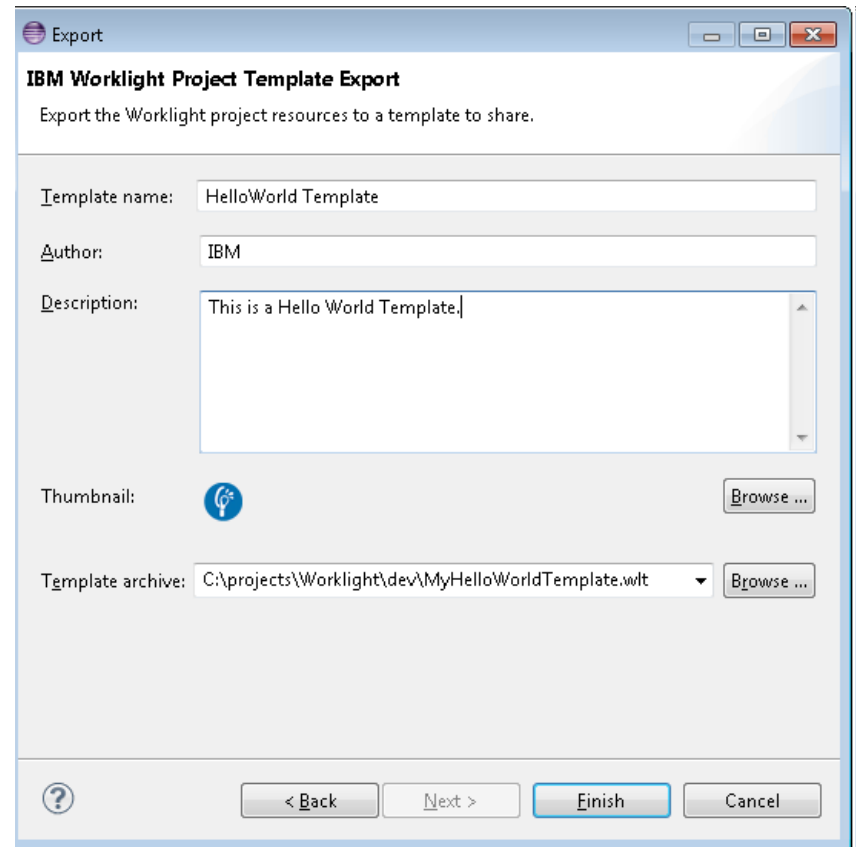
Exercise – Worklight project templates (2 of 2)

- Copy the Worklight project template that you previously created to a download folder.

- In the new workspace, configure the download folder where the newly created Worklight project template archive is copied.

- Use the option **Creating Worklight Artifact from the Shared Templates**.

- Enter the Worklight project name, and the application name.

- Select the **HelloWorld Template** Worklight project template, and click **Finish**.

- Use the **Tasks** tab to find out how to modify the `initOptions.js` file.

Exercise – application components

- Use the HelloWorklight application that you created earlier.

- Create an application component.

- Expand **HelloWorklightProject > apps > HelloWorklightApp > common > css**.

- Select the `HelloWorklightApp.css` file for inclusion in the application component archive.

- Verify that the archive contents match the description in the documentation.

- Switch to a new Worklight Studio workspace.

- Copy the application component that you previously created to a download folder.

- In the new workspace, configure the download folder where the newly created application component archive is copied.

- Create a hybrid Worklight project with name MyWorklightProject.

- Use the option **Add/Remove Application Components** to add the newly created application component.

- After the successful addition of the application component, only the **HelloWorklightApp.css** file is found in the MyWorklightProject.

Check yourself questions

- Complete the sentence: Worklight project templates…

  - avoid development of mobile applications from scratch.

  - are reusable libraries that developers can add to their applications.

  - are native specific applications.

- Complete the sentence: Application components…

  - support only hybrid applications.

  - support only native applications.

  - are Worklight Starter applications.

Check yourself questions

- Complete the sentence: Worklight project templates…
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  - are reusable libraries that developers can add to their applications.
  - are native specific applications.
- Complete the sentence: Application components…
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  - support only native applications.
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Check yourself questions

- Worklight project templates and application components do not load in the Worklight wizards if:

  - There are no Worklight project templates and application components in the download folder.

  - Invalid Worklight project templates and application components are in the download folder.

  - The download folder is not configured.

  - All of the previous answers.

- The difference between Worklight project templates and application components is:

  - Worklight project templates support only hybrid applications while application components do not support hybrid applications.

  - Worklight project templates are starter apps to avoid development of mobile applications from scratch while application components are reusable libraries.

  - There are no differences between them.

Check yourself questions

- Worklight project templates and application components do not load in the Worklight wizards if:
  - There are no Worklight project templates and application components in the download folder.
  - Invalid Worklight project templates and application components are in the download folder.
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