Package Manager Test Cases

Semen Cirit

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1. Try to open package manager from system settings

2. Try to open package manager from Kmenu.

3. Toolboxes:

   The box on the left shows the package groups and each group contain related components' packages.

   To see which component belongs to which group go console and type:

   ```
   $ grep -A 167 "component_group_mappings " /usr/kde/4/share/apps/package-
   manager/backend/pisi/groups.py > /tmp/listofgroups
   ```

   3.1. File toolbox

   Dropdown alternatives Select a component from /tmp/listofgroups file

   3.1.1. Try to Show new packages Type

   ```
   $ pisi la -Uc <component>
   ```

   Compare package-manager and console results for related component.

   3.1.2. Try to Show installed packages Type

   ```
   $ pisi li -c <component>
   ```

   Compare package-manager and console results for related component.

   3.1.3. Try to Show upgradable packages Type

   ```
   $ pisi lu -c <component>
   ```

   Compare package-manager and console results for related component.

   3.1.4. Click quit dropdown menu.
   Observe the situation.

   3.2. Settings Toolbox Dropdown alternatives

   3.2.1. Try to enable and then disable show toolbar. Observe the situation.

3.2.2. Try to enable and then disable show statusbar. Observe the situation.

3.2.3. Configure shortcuts

    3.2.3.1. Try to search for an action. Observe the situation. Select an alternative from the package-manager list

    3.2.3.2. Shortcut action

- Try to change a shortcut. Observe the situation.
- Try to add a custom shortcut. Observe the situation.
- Try to remove shortcut. Observe the situation.

    3.2.3.3. Alternative action

- Try to change a shortcut. Observe the situation.
- Try to add a custom shortcut. Observe the situation.
- Try to remove shortcut. Observe the situation.

3.2.4. Configure toolbar

    3.2.4.1. Try to add an action

    3.2.4.2. Try to remove an action

    3.2.4.3. Try to take up an action

    3.2.4.4. Try to take down an action Observe all situations

3.2.5. Configure package manager

    3.2.5.1. General Settings tab

- Try to show only desktop applications
  Observe that "True" is assigned to "ShowOnlyGuiApp" variable in .kde/share/config/package-managerrc file.
- Try to enable system tray icon
  Observe that "True" is assigned to "SystemTray" variable in .kde/share/config/package-managerrc file.
- Try to enable periodic update check
  - Observe that "True" is assigned to "UpdateCheck" variable in .kde4/share/config/package-managerrc file.
  - Put a observable time interval, observe it from package manager,
  - Also observe this time interval is added to "UpdateCheckInterval" variable in .kde/share/config/package-managerrc file.
- Try to enable bandwidth limit
  Try to limit bandwidth and install some packages with package-manager, observe the limit from installation progressbar. And compare it with bandwith_limit value in /etc/pisi/pisi.conf file.

    3.2.5.2. Cache tab

- Update check part
  - Enable use hard disk cache for downloaded software
    Observe `package_cache = True` in /etc/pisi/pisi.conf file.
  - Try to give a value to maximum cache size
    Observe maximum cache size is added to "package_cache_limit" variable in /etc/pisi/pisi.conf

- Clear Cache part
  - Try Clean disk cache now
    Execute the following commands:

    ```
    # ls -l /var/pisi
    # ls -l /var/cache/pisi
    ```

    Look at size of them
    Press Clean disk cache now button
    Execute the following commands again:

    ```
    # ls -l /var/pisi
    # ls -l /var/cache/pisi
    ```

    Observe that these directories are empty.

3.2.5.3. Repositories tab
- Try to add a repository from
- Try to remove a repository
- Try to take up a repository
- Try to take down a repository
  Observe all situations.
- Execute the following command to list the repositories and compare the results with package-managers'.

  ```
  # pisi lr
  ```

3.2.5.4. Proxy tab
- Select No proxy server Look /etc/pisi/pisi.conf file, observe these variables are like that

  ```
  http_proxy = None
  https_proxy = None
  ftp_proxy = None
  ```

- Select Use proxy server
  - Try to add a HTTP server and enable use proxy server for all protocols.
    Observe the related results of /etc/pisi/pisi.conf
  - Try to add a HTTP, a HTTPS and a FTP server
    Observe the related results of /etc/pisi/pisi.conf

3.2.5.5. Help toolbox
Dropdown alternatives
- KDE help center (testcases will added later)
- What's this?
  Try to take the description of each widget on the screen.
- Switch application language
  - Change primary language and observe the situation.
  - Try to add a fallback language and observe the situation.
  - Try to remove the fallback language and observe the situation.

4. Toolbar

   - Try to right click on toolbar
   - Try to change the oriantation, observe each result
   - Try to change text position, observe each result.
     Observe also that selected style is assigned to "ToolButtonStyle" variable in .kde/share/config/package-managerrc file.
   - Try to change the icon size, observe the each result.
   - Try to lock toolbar, then unlock toolbar
     Then right click again and try to change some feature.
   - Try to enable and disable toolbar, observe each result.
   - Try to configure toolbar and test again toolboxes-¿ configure toolbar part of testcases.

5. Installing Package You can observe whether the package installed with this command:

   ```
   pisi info <package-name>
   ```

   - After showing new packages.
     - Select a package from package list, try to install.
     - Select all, try to install all
   - After showing upgradable packages.
     - Select a package from package list, try to install.
     - Select all, try to install all
   - After installing some package try to install a gui application (for example kaffein)and for this time enable remembering password when the system policykit screen open.
     Observe that after installing this package a screen is opened which contains this package icon. Click on it and try to open it.
   - Try to install a package when your password remembered.
     Observe that the package manager doesn't ask password and install the package without any problem.

6. Removing packages You can observe whether the package removed with this command:

   ```
   pisi info <package-name>
   ```

   - After showing installed packages.
     - Select a package from package list, try to remove.
     - Select all, try to remove all.