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# Taking Screenshots - Page, Web Element, Section, Full Page, FileHandler, Robot, AShot and Selenium 4 Changes (Selenium 4 - Session 22)

## Taking Screenshots in Selenium

- We can take screenshots in Selenium using the predefined Interface and methods in Selenium.
- Demonstrate taking Screenshots in Selenium
  - Copy the below two lines of code, where ever we need to take screenshots and modify them accordingly:
    - `File screenshotFile = ((TakesScreenshot) driver).getScreenshotAs(OutputType.FILE);`
    - `FileUtils.copyFile(screenshotFile, new File("screenshots\\screenshot1.jpg"));`
  - Note: We have to download the Jar files for importing FileUtils
    - Google search for FileUtils common.io package
  - Note: We can use **FileHandler.copy()** pre-defined class from Selenium, in place of FileUtils.

## (Selenium 4 - Changes) Taking Screenshots of Web Elements, Section and Full Page

- `getScreenshotAs()`
- `getFullPageScreenshotAs()` - Only firefox browser

## Advantages of Taking Screenshots using Robot Class

- The following are the benefits of using Robot Class
  - We can take the screenshots which includes URL of the application
  - We can take the screenshots of the displayed alerts
- Practical Demonstration
  - `Robot robot = new Robot();`
  - `Dimension dimension = Toolkit.getDefaultToolkit().getScreenSize();`
  - `Rectangle rect = new Rectangle(dimension);`
  - `BufferedImage bufferedImage = robot.createScreenCapture(rect);`  
`String screenshotPath = System.getProperty("user.dir")+"//Screenshots//robot.png";`
  - `ImageIO.write(bufferedImage,"png",new File(screenshotPath));`

```
AShot().screenshotStrategy(ScreenshotStrategies.viewportUsing(1000)).takeScreenshot(driver,,
ImageIO.write(screenshot.getImage(),"PNG",new
File(System.getProperty("user.dir")+"/Screenshots/fullscreenshot.png"));
```

Rv.