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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));

Taking Screenshots of Full Page in any Browser using AShot API

Screenshot screenshot = new AShot().shootingStrategy(ShootingStrategies.viewportPasting(1000)).takeScreenshot(driver);
ImageIO.write(screenshot.getImage(),"PNG",new File(System.getProperty("user.dir")+"/Screenshots/fullscreenshot.png"));

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