# Added code in feature file for column headers-

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| Feature: user registration  Scenario: user registration with different data  Given user is on registration page  When user enters the following details  | naveen | automation | nav@gmail | 234324 | bangalore |  | tom | manual | tom@yahoo | 23432 | pune |  | robert | sdet | robert@michi | 234234 | london |  Then user registration is successful  **Scenario: user registration with different data with column headers**  **Given user is on registration page**  **When user enters the following details with column headers**  **|firstName | lastName | email | phone | location |**  **| naveen | automation | nav@gmail | 234324 | bangalore |**  **| tom | manual | tom@yahoo | 23432 | pune |**  **| robert | sdet | robert@michi | 234234 | london |**  **Then user registration is successful** |

Step def updated-

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| **package** StepDefinitions;  **import** java.util.List;  **import** java.util.Map;  **import** io.cucumber.datatable.DataTable;  **import** io.cucumber.java.en.Given;  **import** io.cucumber.java.en.Then;  **import** io.cucumber.java.en.When;  **public** **class** UserRegistration {    @Given("user is on registration page")  **public** **void** user\_is\_on\_registration\_page() {  System.***out***.println("user navigates on registration page");  }  @When("user enters the following details")  **public** **void** user\_enters\_the\_following\_details(DataTable dataTable) {  List<List<String>> userList=dataTable.asLists(String.**class**);// this step will first take the String input.  //as Lists returns List of List of Objects.  //this for loop will print row by row data.  **for**(List<String> e:userList) {  System.***out***.println(e);  }      }  @Then("user registration is successful")  **public** **void** user\_registration\_is\_successful() {  System.***out***.println("user registration is successful");  }    @When("user enters the following details with column headers")  **public void user\_enters\_the\_following\_details\_with\_column\_headers(DataTable dataTable) {**  **List<Map<String, String>> userMap= dataTable.asMaps(String.class, String.class);**  **System.*out*.println(userMap);**  **}**  } |

Output-

A screenshot of a computer

Description automatically generated with medium confidence

This is the list of map-

A picture containing text, screenshot, black, font

Description automatically generated

# Added below line of code in step def to see output-

A screenshot of a computer

Description automatically generated with low confidence

Output-

A screenshot of a computer

Description automatically generated with medium confidence

# Added new line of code-

A screenshot of a computer

Description automatically generated with medium confidence

Output-

A screenshot of a computer

Description automatically generated with medium confidence

# Project structure-

A screenshot of a computer

Description automatically generated with medium confidence

# Codes-

Feature:

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| Feature: user registration  Scenario: user registration with different data  Given user is on registration page  When user enters the following details  | naveen | automation | nav@gmail | 234324 | bangalore |  | tom | manual | tom@yahoo | 23432 | pune |  | robert | sdet | robert@michi | 234234 | london |  Then user registration is successful  Scenario: user registration with different data with column headers  Given user is on registration page  When user enters the following details with column headers  |firstName | lastName | email | phone | location |  | naveen | automation | nav@gmail | 234324 | bangalore |  | tom | manual | tom@yahoo | 23432 | pune |  | robert | sdet | robert@michi | 234234 | london |  Then user registration is successful |

Step def:

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| --- |
| **package** StepDefinitions;  **import** java.util.List;  **import** java.util.Map;  **import** io.cucumber.datatable.DataTable;  **import** io.cucumber.java.en.Given;  **import** io.cucumber.java.en.Then;  **import** io.cucumber.java.en.When;  **public** **class** UserRegistration {    @Given("user is on registration page")  **public** **void** user\_is\_on\_registration\_page() {  System.***out***.println("user navigates on registration page");  }  @When("user enters the following details")  **public** **void** user\_enters\_the\_following\_details(DataTable dataTable) {  List<List<String>> userList=dataTable.asLists(String.**class**);// this step will first take the String input.  //as Lists returns List of List of Objects.  //this for loop will print row by row data.  **for**(List<String> e:userList) {  System.***out***.println(e);  }      }  @Then("user registration is successful")  **public** **void** user\_registration\_is\_successful() {  System.***out***.println("user registration is successful");  }    @When("user enters the following details with column headers")  **public** **void** user\_enters\_the\_following\_details\_with\_column\_headers(DataTable dataTable) {  List<Map<String, String>> userMap= dataTable.asMaps(String.**class**, String.**class**);  // System.out.println(userMap);  // System.out.println(userMap.get(0).get("firstName")); //get(0) will go to the 0th guy in list of maps. first row of the list.  //To retrieve value from map use the get method and pass in the key, get("firstname").    //using for loop to print the values of all columns  **for**(Map<String, String> e:userMap) {  System.***out***.println(e.get("firstName"));  System.***out***.println(e.get("lastName"));  System.***out***.println(e.get("email"));  System.***out***.println(e.get("phone"));  System.***out***.println(e.get("location"));  }  }  } |