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| Test Case Module | Test Case Name | Test Case Description | Test Steps | Test Data | Expected Result | Actual Result |
| Login Module | Valid Login/SignIn | Enter correct username and password and click on the "Login" button. Verify that user is successfully logged in and redirected to the home page | 1.Enter the correct username  2.Enter the correct password | Username:  Shreya121  Password:  Tintin@11 | Output:  {   "Code": 200,   "Message": "Signed In  Successfully"  } | Output:  {    "Code": 200,  "Message": "Signed In  Successfully"  } |
|  | Invalid Login/SignIn | Enter correct username and incorrect password and click on the "Login" button. | 1.Enter the correct username  2.Enter the incorrect password | Username:  Shreya121  Password:  Shreya@11 | Output:  {   "Code": 401,   "Message":  "Invalid UserName or Password"  } | Output:  {   "Code": 401,   "Message": "Invalid   UserName or Password"  } |
|  |  | Enter incorrect username and correct password and click on the "Login" button. | 1.Enter the incorrect username  2.Enter the correct password | Username:  Shreya123  Password:  Tintin@11 | Output:  {   "Code": 401,   "Message":  "Invalid UserName or Password"  } | Output:  {   "Code": 401,   "Message": "Invalid   UserName or Password"  } |
|  |  | Enter incorrect username and incorrect password and click on the "Login" button. | 1.Enter the incorrect username  2.Enter the incorrect password | Username:  Shreya103  Password:  Shreya@11 | Output:  {   "Code": 401,   "Message":  "Invalid UserName or Password"  } | Output:  {   "Code": 401,   "Message": "Invalid   UserName or Password"  } |
| SignUp Module | Valid SignUp | Enter username,  user\_password and email in correct format and click on the "SignUp" button. Verify that user is successfully signed up | 1.Enter the username  2.Enter the password  3.Enter the email id | Username:  Shreya103  Password:  Shreya@11  Email:  shrey@abc | {   "Code": 200,   "Message": "Signed Up Successfully"  } | {   "Code": 200,   "Message":  "Signed Up Successfully"  } |
|  | invalid SignUp | Enter the username in wrong format(First letter is lower-case),  user\_password and email in correct format and click on the "SignUp" button. | 1.Enter the username in wrong format  2.Enter the password  3.Enter the email id | Username:  shreya103  Password:  Shreya@11  Email:  shrey@abc | Output:  {   "Code": 401,   "Message":  Invalid Entry""  } | Output:  {   "Code": 401,   "Message":  Invalid Entry  } |
|  | invalid SignUp | Enter username,  user\_password in wrong format(No special characters) and email in correct format and click on the "SignUp" button. | 1.Enter the username  2.Enter the password in wrong format  3.Enter the email id | Username:  shreya103  Password:  Shreya11  Email:  shrey@abc | Output:  {   "Code": 401,   "Message":  Invalid Entry""  } | Output:  {   "Code": 401,   "Message":  Invalid Entry  } |
|  | invalid SignUp | Enter username,  user\_password correct and email in wrong format and click on the "SignUp" button. | 1.Enter the username  2.Enter the password  3.Enter the email id in wrong format | Username:  shreya103  Password:  Shreya@11  Email:  shrey@abc | Output:  {   "Code": 401,   "Message":  Invalid Entry""  } | Output:  {   "Code": 401,   "Message":  Invalid Entry  } |

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| Test Case Module | Test Case Name | Test Case Description | Test Steps | Test Data | Expected Result | Actual Result |
|  | invalid SignUp | Leave the username blank and enter the password and emailed in correct format | 1.Leave the username as blank  2.Enter the password  3.Enter the email id | Username:  “BLANK”  Password:  Shreya@11  Email:  shrey@abc | Output:  {   "Code": 401,   "Message":  Invalid Entry  } | Output:  {   "Code": 401,   "Message":  Invalid Entry  } |
|  | invalid SignUp | Enter username,  email in correct format and leave the password blank and click on the "SignUp" button. | 1. Enter the username  2.Leave the password as blank  3.Enter the email id | Username:  Shreya123  Password:  “BLANK”  Email:  shrey@abc | Output:  {   "Code": 401,   "Message":  Invalid Entry  } | Output:  {   "Code": 401,   "Message":  Invalid Entry  } |
|  | invalid SignUp | Enter username,  password in correct format and leave the email id blank and click on the "SignUp" button. | 1. Enter the username  2. Enter the password  3. Leave the email id  as blank | Username:  Shreya123  Password:  Tintin@11  Email:  “BLANK” | Output:  {   "Code": 401,   "Message":  Invalid Entry  } | Output:  {   "Code": 401,   "Message":  Invalid Entry  } |
|  | invalid SignUp | Send a request without providing any fields, and verify that the response status code is 401 and the error message indicates that the fields are required | Leave all the fields blank | Username:  “BLANK”  Password:  “BLANK”  Email:  “BLANK” | Output:  {   "Code": 401,   "Message":  Invalid Entry  } | Output:  {   "Code": 401,   "Message":  Invalid Entry  } |
|  | invalid SignUp | Send a request with an username that already exists in the system, and verify that the response status code is 401 and the error message indicates that the username is already in use. | 1. Enter an existing username  2. Enter the password  3. Enter the email id | Username:  Shreya123  Password:  Tintin@11  Email:  shrey@abc | Output:  {   "Code": 401,   "Message":  Username Already Taken  } | Output:  {   "Code": 401,   "Message":  Username Already Taken  } |
|  | invalid SignUp | Send a request with an email id that already exists in the system, and verify that the response status code is 401 and the error message indicates that the email id is already in use. | 1. Enter the username  2. Enter the password  3. Enter an existing email id | Username:  Shreya123  Password:  Tintin@11  Email:  shrey@abc | Output:  {   "Code": 401,   "Message":  Email Already Taken  } | Output:  {   "Code": 401,   "Message":  Email Already Taken  } |
| Displaying News article | Displaying articles with valid username | Send a request with an username that already exists in the system, this will show the news for that particular user | 1.Pass a valid username through POSTMAN. | Username:  Shreya121 | {"status": "ok",   "totalResults": 66  } | {"status": "ok",   "totalResults": 66  } |
|  | Displaying articles with valid username | Send a request with an username that do not exist in the system, this will show the response status code is 401 | 1.Pass an invalid username through POSTMAN. | Username:  Shreya123 | {      "Code": 401,      "Message": "Invalid UserName"  } | {      "Code": 401,      "Message": "Invalid UserName"  } |
|  | Display articles with no username | Send a request with no username, this will show the response status code is 404 | 1.Hit /News api with no username through POSTMAN. | http://127.0.0.1:5000/News/ | {      "Code": 404,      "Message": "Not Found  } | {      "Code": 404,      "Message": "Not Found"  } |
| Display and update news Categories | Displaying news Categories with valid username | Send a request with an username that already exists in the system, this will show the news by categories for that particular user | 1.Pass a valid username through POSTMAN. | Username:  Shreya121 | {  "Code": 200,  "Message": "Valid Username",  "data": {  "business": **false**,  "entertainment": **false**,  "general": **false**,  "health": **false**,  "science": **false**,  "sports": **true**,  "technology": **false**,  "userName": "Shreya121"      }  } | {  "Code": 200,  "Message": "Valid Username",  "data": {  "business": **false**,  "entertainment": **false**,  "general": **false**,  "health": **false**,  "science": **false**,  "sports": **true**,  "technology": **false**,  "userName": "Shreya121"      }  } |
|  | Displaying news Categories with invalid username | Send a request with an username that do not exist in the system, this will show the response status code is 401 | 1.Pass an invalid username through POSTMAN. | Username:  Shreya12345 | {    "Code": 401,    "Message": "Invalid UserName"  } | {    "Code": 401,    "Message": "Invalid UserName"  } |
|  | Update user categories | Send a put request with username and categories details. | 1.Hit /Categories PUT api with username and proper request body. | http://127.0.0.1:5000/Categories/ Shreya121  {              "business": **true**,              "entertainment": **false**,              "general": **false**,              "health": **true**,              "science": **true**,              "sports": **false**,              "technology": **true**  } | {      "Code": 200,      "Message": "Valid Username",      "data": {          "business": **true**,          "entertainment": **false**,          "general": **false**,          "health": **true**,          "science": **true**,          "sports": **false**,          "technology": **true**,          "userName": "Shreya121"      }  } | {      "Code": 404,      "Message": "Not Found  } |