# Jira-XXX – Factorial Calculation

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| **Use Case AQA Owner** | Lakshman P |
| **Use Case Reference** | Link to Use Case Jira |
| **Use Case Slice/ Epic Reference** | Link to Slice Jira |
| **Solution Design Reference** | Confluence page on Solution design approved with all stake holder |
| **Tests in Allure** | Allure Test cases |
| **Team Leads** |  |
| **QA Reviewer** |  |
| **Dev Reviewer** |  |
| **Product Reviewer** |  |
| **Status** |  |
| **Status history** | Draft created by Lakshman approved by QA Manager |

# Introduction:

This slice is to test factorial calculation on calculator application.

# Test Approach:

* API Testing ( N/A in this scenario)
  + API Tests are written based on Solution Design
  + Existing Endpoints are affected, Re-visit the tests associated
  + New Endpoints –
    - 200 OK
    - Parameter test
    - Verify response data
* UI Testing
  + Page load correctly
  + Title
  + Hyper Links, associated urls
  + Content
  + Elements like button, input
  + Validate messages
  + Cross Browser Testing ( major browsers like chrome, Firefox, Edge, Internet Explorer (edge case))
  + Refresh page
  + Back/Front arrow and its states
* Performance Testing (N/A in this scenario)
* Restore Testing (N/A in this scenario)

# Test Dependencies:

* Auto Framework requirements:
  + API Test framework:
    - Calculator Factorial Scenarios
  + UI Test framework
    - Calculator page

# Exploratory Testing/PO Approval:

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| --- | --- |
| API Testing | Positive Scenarios:  Parameter Scenarios:  Negative Scenarios: |
| UI Testing | Positive Scenario:   * + - * 1. Factorial of a positive integer         2. Factorial of 0 and 1   Parameter Scenarios: arthematic operations (+, -, \*, %, ^)   1. Factorial of arthematic operations of number(s) 2. Arthematic operations of factorial of number(s)   Negative Scenarios:   1. Factorial of Negative numbers 2. Factorial of float number |
| Migration Testing | N/A |
| Restore Testing | N/A |
| Volume Testing | N/A |
| Performance Testing | N/A |
| Exploratory Testing | Involves Smoke testing, Test cases |