# Feature List (In Progress | Not Started Yet | Out\_of\_scope\_But\_needs\_tobedone | To\_be\_done\_forClient)

Based on the excel Sheet shared

### Feature – Adaptive Assessment Model

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| Excel line no | Description | User Type |
| 19 | Traditionally Yaksha tests, irrespective of them being McQ/Coding/Full stack) have been fixed size – in terms of content - Question Size and sections. Adaptive assessment tests may have no boundaries. Transition from one section to another depends on results of the previous section attended. Details of specifications are yet to be baselined | Associate or Learner |

1. Feature - Assessment status for user

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| Excel line no | Description | User Type |
| 21 | Associates should be able to view assessment status (i.e. not started, started, in progress and completed status)  Associates may have their own dashboards whom they login through a set of credentials shared. From there on they can see their history of tests given, scores, tests aligned and possibly recommendations based on past history. Recommendations can be their a brief on their strengths and weaknesses | Associate or Learner |

1. Content Audit Trail

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| Excel line no | Description | User Type |
| 36 | Should be able to track who has updated and what was updated  This is a technical feature with an intent of tracking history of content updates – Who created content, updated or deleted it. Content in this context being Questions, Tests, Test Cases. Admin users, when logged in, can see this trail. | Admin |

1. Download Option from MCQ

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| Excel line no | Description | User Type |
| 38 | Option to download Bulk QB for both Knowledge and Skill  Admin users should not only be able to download but also upload MCQ content | Admin |

1. Download option for skill assessment/coding questions

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| Excel line no | Description | User Type |
| 40 | Same as above, but here the content to be downloaded is Coding Questions. Format of coding Questions is different with attributes involved being test cases as well. One can login to Yaksha and search for a Coding Question to figure out the set of attributes involved. | Admin |

1. Admin user management with various access controls

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| Excel line no | Description | User Type |
| 53 | – Right now Yaksha has following types of users –   1. Admin (Has a dashboard) 2. Learner or associate or student who undergo tests on Yaksha (Doesn’t have a dashboard)   Going forward, it is proposed to have following type of users, in addition to above –   1. Master Admin – Who can view/edit data for all tenants 2. Admin Content Creator – Create Content 3. Admin Content Reviewer – Reviews Content. Unless content is reviewed, it won’t be published | Admin |

1. SSO Integration

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| Excel line no | Description | User Type |
| 55 | In the context of Yaksha integration with -   1. LMS systems clients, where in users are already on boarded in their LMS through their identity servers such as ADS. 2. Direct usage of Yaksha by users of clients, where in users are present in identity servers of client.   There is a need for Yaksha to assume the role for Service Provider that either directly interacts with client’s identity server or consumes the identity assertion passed by LMS to extract identity info.  Example – Currently we are integrating with Infosys wherein its LMS is consuming Yaksha services. | System |

1. Web cam based proctoring

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| Excel line no | Description | User Type |
| 61 | Not limited to below, but can essentially be these –  1. Image upload to configured servers  2. Disruptive pattern recognition (someone talking over phone or more than 1 person at the desk or no one at the desk)  3. Comparing live image to the image of test giver already uploaded  4. Proctoring Solution Compatible with web application deployed on HTML5 based browsers.  This is going to be a third party integration | Associate or Learner |

1. Multilanguage Support

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| Excel line no | Description | User Type |
| 62 | As intended, content in different languages for Questions/Tests | System |

1. Provides a gamified environment to take the assessment

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| Excel line no | Description | User Type |
| 68 | Specification not evolved | Associate or Learner |

1. Java Full stack Backend Testing Automation

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| Excel line no | Description | User Type |
| 87  (  Same for line 95/96/  104/105/113/  114/  115  ) | Java Full stack tests in Yaksha are evaluated on 2 parameters –   1. Code Quality 2. Test Cases Metrics   This feature is facilitating automation of back end testing (point b above) and storing the results for reporting.  There are 3 types of test cases supported –   * Functional Test Cases * Boundary Test Cases – For Boundary conditions * Exception Test cases – For Exceptional Conditions including alternate flows | Associate or Learner |

1. Video Assessments

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| Excel line no | Description | User Type |
| 119 | Specifications not outlined | Associate or Learner |

1. ALS Data Entry formats

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| Excel line no | Description | User Type |
| 128 | Yaksha public test links allow associates or users to register first and then take the tests. Right now the registration parameters involved are email/first Name/ last Name. This feature wants the registration parameters to be configurable for a test/tenant. So Tenant A may want only basic registration parameters whereas Tenant B may want additional parameters as PAN/Aadhar.etc | Associate or Learner |

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1. Plagiarism API Solution + Similarity Database - Solution Finalization

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| Excel line no | Description | User Type |
| 129 | Especially for Coding (may be full stack assignments as well), this feature will try to assess whether the code written is not copied from online sources. | Associate or Learner |

1. Employability Index

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| Excel line no | Description | User Type |
| 135 | This feature corresponds to a module - Skillfie  In MCQ tests, this feature wants the questions to be of type – Fill in the Blanks, Match the Following. For these type of Questions, users are expected to choose or write their answers in the answer panel. For these type of tests, evaluation is automatic and system knows beforehand the expected output of these questions.  (See Point 20 Skillfie Phase 2 Manual Review) Apart from above, there is also a requirement for test givers to write open ended answers to subjective questions. Here in evaluations cannot be automated. Answers go to a Reviewer who just and allocate marks and from thereon, results are published on Admin Dashboards. (The manual review corresponds to Point 20 below) | Associate or Learner |

1. Scaling MCQ

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| Excel line no | Description | User Type |
| 143 | To begin with 4 months back a standalone Yaksha did not have the capability to cater to even a concurrent 300 user tests. There was a massive infra grade exercise conducted to cater to 1000 concurrent users, by create a cluster of MCQ Yaksha instance.  On similar lines, a scaling exercise was conducted to scale Coding tests to ~ 1500 sessions. | System |

1. UX Change

Excel line no – 146

Description – Self explanatory

1. Employability Index Insights

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| Excel line no | Description | User Type |
| 148 | see point 15 (Excel line no 135)  Reports for Employability Index feature – formats not yet defined | System |

1. McQ Questions download

Excel line no – 149

Description – Download Excel files for existing Question Content

1. Skillfie Phase 2 Manual Review

Excel line no – 151

Description – See point 16 above

1. MongoDB Dot net stack

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| Excel line no | Description | User Type |
| 153 | For full stack Yaksha test, this is a different technology stack wherein users will work on writing Dot net code interacting with MongoDB database. | System |

1. Multifile Report Email Communication

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| Excel line no | Description | User Type |
| 156 | For multifile (full stack) tests, for reporting needs, Yaksha is integrated with Power BI reporting tool. Power BI generates a pdf document for a user for the test given by him and reports on Code quality and Test Cases metrics.  The pdf files generated by Power BI are dispatched by an Yaksha API by emails to a set of configured stakeholders. | System |

1. SSO – Infosys

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| Excel line no | Description | User Type |
| 158 | In the context of Yaksha integration with -   1. LMS systems clients, where in users are already on boarded in their LMS through their identity servers such as ADS. 2. Direct usage of Yaksha by users of clients, where in users are present in identity servers of client.   Integration of Yaksha with Infosys – LMS used internally by Infosys is called Wingspan. Users will log into Wingspan ad in the process of course completion, they will take Yaksha assessments. Herein Yaksha will act as service provider and validate the SaML assertions sent by Wingspan before allowing access following SAML 2.0 protocol. | System |
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1. Test Links Expiry Configurable

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| Excel line no | Description | User Type |
| 163 | Yaksha provided, through UI, handles to create time bound public and private test links. Public test links require registration, whereas private test links don’t.  Problem with time bound links being they can’t be updated to increase/decrease time limits. This results in lots of Operations work to re-create these links.  Solution - This feature allows a configuration flag to be hooked with test links in a way – Yaksha backend can then then decide whether to proceed or block users based on flag set. This will allow a re-use of test links. | System, Admin |