

| Quality attribute             | Refinement | Quality attribute scenarios |                         |                        |                  |                                     | Business value                      | Technical risk |
|-------------------------------|------------|-----------------------------|-------------------------|------------------------|------------------|-------------------------------------|-------------------------------------|----------------|
|                               |            | source                      | stimulus                | artifact               | environment      | Response                            |                                     |                |
| Availability/Reliability      |            | Notification                | Event                   | Database               | normal operation | Inform operator                     | No downtime                         |                |
|                               |            |                             |                         |                        |                  |                                     |                                     |                |
|                               |            |                             |                         |                        |                  |                                     |                                     |                |
|                               |            | do with Rapla               |                         |                        |                  |                                     |                                     |                |
| Interoperability              |            | User                        | load Rapla data         | Backend with Rapla API | runtime          | Json Object with all the Rapla Data | http Response code 200              |                |
|                               |            |                             |                         |                        |                  |                                     |                                     |                |
|                               |            |                             |                         |                        |                  |                                     |                                     |                |
|                               |            |                             |                         |                        |                  |                                     |                                     |                |
| Modifiability/Maintainability |            | Developer                   | Wishes to change the UI | Code                   | Design time      | change made and unit tested         | in 3 hours                          |                |
|                               |            |                             |                         |                        |                  |                                     |                                     |                |
|                               |            |                             |                         |                        |                  |                                     |                                     |                |
|                               |            |                             |                         |                        |                  |                                     |                                     |                |
| Performance                   |            | User                        | sets new entry          | System                 | normal operation | entries are processed               | No downtime                         |                |
|                               |            |                             |                         |                        |                  |                                     |                                     |                |
|                               |            |                             |                         |                        |                  |                                     |                                     |                |
|                               |            |                             |                         |                        |                  |                                     |                                     |                |
| Security                      |            | User                        | back-up via Github      | Code                   | Development      | old Code Version                    | within seconds                      |                |
|                               |            |                             |                         |                        |                  |                                     |                                     |                |
|                               |            |                             |                         |                        |                  |                                     |                                     |                |
|                               |            |                             |                         |                        |                  |                                     |                                     |                |
| Testability                   |            | Unit tester                 | Code unit completed     | Code unit              | Development      | Result captured                     | loaded correct Rapla data           |                |
|                               |            |                             |                         |                        |                  |                                     |                                     |                |
|                               |            |                             |                         |                        |                  |                                     |                                     |                |
|                               |            |                             |                         |                        |                  |                                     |                                     |                |
| Usability                     |            | User                        | Downloads a new app     | System                 | Runtime          | User uses app productively          | Within 2 minutes of experimentation |                |
|                               |            |                             |                         |                        |                  |                                     |                                     |                |
|                               |            |                             |                         |                        |                  |                                     |                                     |                |
|                               |            |                             |                         |                        |                  |                                     |                                     |                |