

# Story points

\*\* User story points adhere to the following Fibonacci sequence value set : <1,2,3,5,8>

| ID      | User Story  | Frontend | Backend |
|---------|---|----------|---------|
| ERPS-8  | Define products with different parts                                      | 3        | 3       |
| ERPS-7  | Create part and material list required                                    | 5        | 3       |
| ERPS-9  | Track inventory   | 5        | 8       |
| ERPS-11 | Define order for material and bikes                                       | 5        | 3       |
| ERPS-10 | Track quality data  | 2        | 5       |
| ERPS-6  | Allow only registered users to access                                     | 3        | 3       |
| ERPS-12 | Have access to logs and audit trails                                      | 2        | 5       |
| ERPS-13 | Generate documents in different formats and link to Cloud storage csv pdf | 3        | 8       |
| ERPS-5  | Encrypt all credential details, personal info                             | 3        | 3       |
| ERPS-14 | Notifications from process driven work-flow process                       | 3        | 5       |
| ERPS-15 | View transaction logs   | 3        | 5       |
| ERPS-18 | Receive data from production machinery                                    | 5        | 8       |
| ERPS-16 | System to automatically terminate session                                 | 2        | 2       |
| ERPS-17 | Notified by email of the events that need my attention                    | 3        | 5       |

|                |   |   |   |
|----------------|---|---|---|
| <b>ERPS-20</b> | edit the warehouse inventory  | 3 | 3 |
| <b>ERPS-21</b> | track warehouse inventory   | 5 | 3 |
| <b>ERPS-22</b> | production reports to be in pdf format  | 3 | 5 |
| <b>ERPS-23</b> | production reports to be in csv format  | 3 | 5 |
| <b>ERPS-24</b> | add new user to the ERP system  | 5 | 3 |
| <b>ERPS-25</b> | give specific access rights to each users depending on their role                       | 3 | 5 |
| <b>ERPS-26</b> | use the data from the manufacturing and sales team to create accounting profits reports | 5 | 5 |
| <b>ERPS-27</b> | create a company ledger   | 5 | 5 |

## Tasks for User Stories

### ERPS-8 Define products with different parts

| Tasks   | Area    |
|---|---------|
| Design and implement product, component, material models                | Backend |
| Create database tables for product, component, material, materials list | Backend |
| Implement bike, material, part controllers                              | Backend |
| Design and implement supplier, customer models                          | Backend |

|  |          |
|--|----------|
| Create database tables for supplier, customer models | Backend  |
| Select component icons                               | Frontend |
| Design vendor creation profile                       | Frontend |

### ERPS-7 Create part and material list required *new*

| Tasks   | Area     |
|---|----------|
| Design and implement UI components for part and material creation | Frontend |
| Design and implement UI for materials list                        | Frontend |
| Create API between frontend and backend                           | Backend  |
| Implement CRUD operations for part and material                   | Backend  |
| Implement creation of final product and materials list            | Backend  |

### ERPS-9 Track Inventory

| Tasks   | Area     |
|---|----------|
| Design and implement inventory model  | Backend  |
| Implement inventory table in database and populate with products, components, materials | Backend  |
| Implement inventory stock deduction and restocking for bike, part, material classes     | Backend  |
| Design and implement inventory UI   | Frontend |
| Connect frontend and backend  | Backend  |

### ERPS-11 Update info on raw material / Define and order raw materials and final products

| Tasks                             | Area    |
|-----------------------------------|---------|
| Design and implement order model  | Backend |
| Implement order table in database | Backend |
| Implement order CRUD operations   | Backend |

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|---|----------|
| Connect frontend and backend  | Backend  |
| Design and implement orders overview UI that allows for editing order | Frontend |

### ERPS-10 Track quality data

| Tasks  | Area     |
|--|----------|
| Choose and implement quality data format               | Backend  |
| Choose trigger rules                                   | Backend  |
| Implement quality management service                   | Backend  |
| Design and implement quality management overview of UI | Frontend |

### ERPS-6 Allow only registered users to access

| Tasks  | Area     |
|--|----------|
| Design and implement user model                      | Backend  |
| Implement user table in database                     | Backend  |
| Determine user access roles                          | Backend  |
| Create admin and allow to create users and set roles | Backend  |
| Implement login page and logout option               | Frontend |
| Implement admin user editing page                    | Frontend |

### ERPS-12 Have access to logs and audit trails

| Tasks   | Area     |
|---|----------|
| Create log files                                  | Backend  |
| Generate audit trails and system logs             | Backend  |
| Save audit trails and output to appropriate files | Backend  |
| Make log files available to the user and the UI   | Backend  |
| Retrieve and format data from the log files       | Frontend |

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|--|----------|
| Implement pages to display logs and audit trails | Frontend |
|--|----------|

### ERPS-13 Generate documents in different formats *new*

| Tasks   | Area     |
|---|----------|
| Generate report in MS excel spreadsheets format                                 | Backend  |
| Generate report in Adobe PDF format   | Backend  |
| Link to Cloud storage service such as Google Drive with push and pull functions | Backend  |
| Implement data selection and report creation functions                          | Backend  |
| Implement data selection and report creation UI                                 | Frontend |

### ERPS-5 Encrypt credentials and personal info

| Tasks                                 | Area    |
|---------------------------------------|---------|
| Implement encryption on user password | Backend |
| Implement encryption on personal info | Backend |
| Acceptance test for admin             | Backend |

### ERPS-14 Notifications from process driven work-flow

| Tasks   | Area    |
|---|---------|
| Allow emails to be sent from erp system to users                            | Backend |
| Define business rules that will trigger notifications                       | Backend |
| Define trigger activities (emails, transaction holds approval requests etc) | Backend |

### ERPS-15 View transaction logs

| Tasks                                       | Area    |
|---|---------|
| Generate financial accounts                 | Backend |
| Keep log of payable and receivable accounts | Backend |
| Analyse the financial accounts              | Backend |

|   |          |
|---|----------|
| Generate financial reports from analysed accounts | Backend  |
| Implement pages for displaying financial reports  | Frontend |

### ERPS-18 Receive data from production machinery

| Tasks  | Area     |
|--|----------|
| Read production machinery data from CSV/XML file format and display in readable format | Backend  |
| Upload production machinery data   | Backend  |
| Implement production machinery report creation and viewing UI                          | Frontend |

### ERPS-16 System to automatically terminate session

| Tasks                                  | Area    |
|--|---------|
| Create sessions to track user activity | Backend |
| Terminate the session after a set time | Backend |

### ERPS-17 Notified by email of the events that need my attention

| Tasks  | Area    |
|--|---------|
| Define major and critical events and relevant emails for each role | Backend |
| Send emails according to relevant roles                            | Backend |
| Automate email sending to certain role                             | Backend |

### ERPS-20 Edit warehouse inventory *new*

| Tasks  | Area     |
|--|----------|
| Design and implement UI updating the warehouse inventory | Frontend |
| Design and implement UI for materials list               | Frontend |
| Create API between frontend and backend                  | Backend  |
| Implement CRUD operations for part and material          | Backend  |

|   |         |
|---|---------|
| Implement updating inventory of final product parts, and materials list | Backend |
|---|---------|

### ERPS-21 Edit warehouse inventory *new*

| Tasks   | Area     |
|---|----------|
| Design and implement UI updating the warehouse inventory                | Frontend |
| Design and implement UI for materials list                              | Frontend |
| Create API between frontend and backend                                 | Backend  |
| Implement CRUD operations for part and material                         | Backend  |
| Implement updating inventory of final product parts, and materials list | Backend  |

### ERPS-22 Generate documents in pdf format *new*

| Tasks  | Area     |
|--|----------|
| Generate report in Adobe PDF format                    | Backend  |
| Implement data selection and report creation functions | Backend  |
| Implement data selection and report creation UI        | Frontend |

### ERPS-23 Generate documents in csv format *new*

| Tasks  | Area     |
|--|----------|
| Generate report in MS excel spreadsheets format        | Backend  |
| Implement data selection and report creation functions | Backend  |
| Implement data selection and report creation UI        | Frontend |

### ERPS-28 Link generated Report to the Cloud *new*

| Tasks   | Area    |
|---|---------|
| Retrieve all reports generate by different department                           | Backend |
| Link to Cloud storage service such as Google Drive with push and pull functions | Backend |

|  |          |
|--|----------|
| Implement data selection and report creation functions | Backend  |
| Implement data selection and report creation UI        | Frontend |

### ERPS-26 Link generated Report to the Cloud *new*

| Tasks  | Area     |
|--|----------|
| Retrieve all data generated by manufacturing department and sales department | Backend  |
| Produce financial report for the accounting department                       | Backend  |
| Implement data selection and report creation functions                       | Backend  |
| Implement data selection and report creation UI                              | Frontend |

### ERPS-27 Create company ledger *new*

| Tasks   | Area     |
|---|----------|
| Retrieve all previous financial reports in order to create a ledger | Backend  |
| Produce company ledger for the accounting department                | Backend  |
| Implement data selection and report creation functions              | Backend  |
| Implement data selection and report creation UI                     | Frontend |