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Simple EBOM Application
- Technical definition

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Target & US Definition

- Targets:
  - Testing of knowledge and see approach of solving issues.
  - It is mandatory to deliver at least one part/step of application and a presentation. The best for you would be to deliver all four steps/parts.

- User Story Definition:
  - As a PLM Test User I want to have simple PLM application so that I can test behavior and get knowledge of BOM structures
    - 1st step – JAVA Application communicated with database
    - 2nd step – GUI implementation at Apache Tomcat
    - 3rd step – Simple EBOM application
    - 4th step – Mandatory – Presentation at TechniaTranscat

1st step: JAVA Application communicated with database

- Object **Part** has defined following attributes:
  - String Type
  - String Name
  - Integer Length
  - Integer Width
  - real Weight
  - real Cost
- Object has following methods:
  - Add - for adding new object Part
  - Update – for update attributes
  - Delete – for delete from database (in this case also relations from/to object are deleted)
  - Link – to link other object Part
  - ListAllNext, ListAllPrevious – methods for showing all linked objects to top/bottom level
  - Next, Previous – methods to return first linked objects (next, previous)

1st step: Details

- Object **Link**
  - Can be used to connect two objects (create connections of object Part with N:N cardinality)

- Use of MySQL database to store data model and objects
  - Define and present database structure for storing all objects. All data must be stored in database

2nd step: GUI implementation at Apache Tomcat

- Design and implement a GUI running at Apache Tomcat
- Interface should cover all functionality from 1st step
- Frontend can be built by technology of your choice

- Interface is built as a table with all Parts from database.
- Every part has displayed also his parameters.
- User can add new Part, update his parameters, link Part with other one.
- User wants to see all linked objects
- User wants to delete object – also all links will be deleted

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3rd step – Simple EBOM application – Research

- Based on previous steps prepare and show Engineering BOM (EBOM) structure, which will contains all MUST parameters as defined in system 3DEXPERIENCE provided by Dassault Systemes
  - EBOM is managed in application called Product Engineer
  - What is a purpose of those parameters in EBOM?
  - What is EBOM structure?
  - What is Part?
- Study available content at web and update your application based on findings
  - E.g. Add new parameters

- Note: Product Engineer is similar application like BOM Management or Engineering Central from previous versions.

4th step – Presentation

- Estimate time needed for implementation
  - Max 4 weeks
- Presentation will be at TECHNIA
  - Max 10 minutes
- Consulting during implementation if needed
  - it is recommended to ask, but will checked quality and quantity of questions
- Contact person
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