PROBLEM SOLVING PROCESS
MUST-HAVES
CRITERIA FOR A SUCCESSFUL EXPERIENCE

⇒ Problem definition and clarity of purpose, goals
⇒ Stages of problem solving which brings simplicity
⇒ Assignment of tasks within each stage
⇒ Gates or assessments between stages

THROUGHOUT THE PROJECT PROCESS

⇒ Ensuring the voice of the client
⇒ Adhering time deadlines during process
⇒ Embedding teamwork processes (goals, roles/responsibilities, norms, decision making)
⇒ Utilizing qualitative and quantitative data
⇒ Communicating and presenting the flow of project process
PROBLEM SOLVING PROCESS

RESEARCH PROJECT PROCESS

1. DEFINE problem or opportunity
2. DEVELOP research plan (interview, survey, user tests, etc)
3. COLLECT & organize data
4. CREATE an analysis, brainstorm creative actions or recommendations
5. STRATEGIZE presentation
6. PRESENT

ANALYSIS PROJECT PROCESS

1. PROBLEM STATEMENT Data requirements, technology use determination (What and how to measure)
2. TECHNOLOGY training and development Decide how to collect data. Develop templates to be approved.
3. COLLECT & organize data
4. ANALYZE the data, revise and collect more data if needed
5. INTERPRET results, visualize the data, strategize the presentation
6. PRESENT
PROBLEM STATEMENT & Requirements

RESEARCH
and explore prior work in this area.
Study the consumer or customer.

DESIGN & CONSTRUCT
a plan and strategy (new)

TEST & IMPROVE
this plan and strategy with user feedback

PRESENT

RESEARCH
Problem Statement, Prior Solutions, Design Requirements
Become an expert of the problem and end user (if applicable)

DESIGN
multiple solutions, drawings and designs.
Create decision matrix to choose.

TEST & PREPARE
to build prototype
Finalize drawings and schematics, identify materials, tools, and skills needed. Seek fabrication support, validate solution with coach.

TEST & ANALYZE
Prototype
Develop, test and construct

EVALUATE & REFLECT
Reflect on solution and process

PRESENT

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