

Requirement Analysis

customer journey map

Steps	What does the person (or group) typically experience?	Interactions	Things	Places	People
Entice	Curiosity or need to understand energy usage patterns	Posters, discussions, awareness events	Web articles, energy reports	Classroom, research lab	Team members, mentors
Enter	Project idea initiated and approved	Project proposal, faculty approval	Project plan, goal statement	Academic setting	Faculty guide, peers
Explore	Gathering datasets from reliable sources (Govt. sites, etc.)	Dataset selection, review processes	Excel sheets, CSV files	Online data portals	Data providers, analysts
Engage	Data cleaning and preparation for analysis	Data filtering, transformation	Tableau Prep, Excel, Python	Local computer/lab	Team collaborators
Create	Building dashboards and visuals in Tableau	Design choices, chart selections	Tableau Desktop/Web	Computer lab	Team members, mentor
Reflect	Gaining insights from visualizations	Reviewing graphs, drawing conclusions	Dashboards (line, bar, pie)	Presentation room	Mentor, peers
Extend	Sharing results and applying findings	Presentations, reports, community awareness	PowerPoint, posters, blog	Expo, seminars	General audience
Evaluate	Gathering feedback and reflecting on improvements	Feedback forms, Q&A	Evaluation sheets, surveys	Project review meeting	Reviewers, jury