Deliverable 2

40089806

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Problem 6 : For your persona, elicit, decide, and create a set of user stories for your **ETERNITY: NUMBERS**. The constraints can be either local (that is, on a single user story) or global (that is, on multiple user stories).

1. **User Story Statement** : As a student, I want a calculator, which would display the formula for the Gaussian Integral, when its corresponding key is pressed on the calculator.

   - **Constraints** : The calculator should contain keys with headings that depict the function name.
   - **Acceptance Criteria** :
     - **Given** : Calculator with ETERNITY:NUMBERS
       When : Gaussian Integral key pressed
       Then : Display the Gaussian Integral formula
     - **Given** : Calculator with ETERNITY:NUMBERS
       When : Key other than Gaussian Integral pressed
       Then : Display nothing
   - **Priority** : High
   - **Estimate** : 0

2. **User Story Statement** : As a student, I want a calculator, which would calculate the Gaussian Integral of a given number.

   - **Constraints** : The calculator should contain keys with headings that depict the function name.
   - **Acceptance Criteria** :
     - **Given** : Calculator with ETERNITY:NUMBERS
       When : Gaussian Integral key pressed and number given as input
       Then : Display the Gaussian Integral of the number
   - **Priority** : High
   - **Estimate** : 1

3. **User Story Statement** : As a Professor, I want a calculator which would help me to check the Gaussian Integral for a given input number, while checking exam sheets of the students.

   - **Constraints** : The calculator should contain keys with headings that depict the function name.
   - **Acceptance Criteria** :
     - **Given** : Calculator with ETERNITY:NUMBERS and students answer for Gaussian Integral of a number
       When : Gaussian Integral key pressed and number given as input
       Then : Display whether the student answer is correct or incorrect

- **Priority** : High
- **Estimate** : 2

4. **User Story Statement** : As a student, I want a calculator, that would help me to calculate the volume of an irregular shaped object.

   - **Constraints** : The calculator should contain keys with headings that depict the function name.
   - **Acceptance Criteria** :
     - **Given** : Calculator with ETERNITY:NUMBERS
       When : Gaussian Integral key pressed and dimensions of the shape are given
       Then : Display the volume of the shape
   - **Priority** : Medium
   - **Estimate** : 3

5. **User Story Statement** : As a student, I want a calculator, which would calculate the Gaussian Integral of a polynomial equation.

   - **Constraints** : The calculator should contain keys with headings that depict the function name.
   - **Acceptance Criteria** :
     - **Given** : Calculator with ETERNITY:NUMBERS
       When : Gaussian Integral key pressed and polynomial equation given as input
       Then : Display the Gaussian Integral of the given equation
   - **Priority** : Low
   - **Estimate** : 5

6. **User Story Statement** : As a student, I want a calculator, which would calculate the volume of an object using Disk Method which uses Gaussian Integration.

   - **Constraints** : The calculator should contain keys with headings that depict the function name.
   - **Acceptance Criteria** :
     - **Given** : Calculator with ETERNITY:NUMBERS
       When : Gaussian Integral key pressed and object dimensions given as input
       Then : Display the volume of the object
   - **Priority** : Low
   - **Estimate** : 8

Problem 7 : Create a backward traceability matrix for your ETER-NITY: NUMBERS. This traceability matrix must have at least two columns, one for each user story, and the other for one or more sources from which the user story was elicited.

User Story ID	Source	Source
1	Interview of Adhish Raval	-
2	Interview of Adhish Raval	-
3	Interview of Adhish Raval	Persona
4	Interview of Adhish Raval	Youtube Video
5	Youtube Video	-
6	Youtube video	-

Table 1: Backward Traceability Matrix