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Group 7
STRUCTURED NATURAL LANGUAGE
FORM-BASED SPECIFICATIONS
AUTOMATED ID APPLICATION PROCESS

Function 1: User registration

Description: A new user is registered into the system.

Inputs: User's full name, email address and password.

Source: The web form that was submitted by the user.

Outputs: User details .

Destination: Login function.

Action: The user inserts their details into the web form and clicks the submit button after which, the system will check the database to see if the user already exists, by using their email address, and if the user exists, registration will be denied.

Requirements: An existing database containing user information.

Pre-condition: The user should not already exist in the database.

Post-condition: The user details are inserted into the database.

Side-effects: None

Function 2: User verification(User login)

Description: Verification of user password.

Inputs: User's email address and password.

Source: The web form that was submitted by the user during logging in.

Outputs: User details.

Destination: Main web page.

Action: The user inserts the required details into the web form then the system will check the database to see if the user already exists and verify their password and if they do not exist, they will be requested to sign up.

Requirements: An existing database containing user information.

Pre-condition: The user should exist in the database.

Post-condition: The user is redirected to the main page.

Side-effects: None

Function 3: ID Application.

Description: Filling in the NationalID application form

Inputs: User's name, Date of birth, Gender, Father's name, Mother's name, Marital Status, Spouse's name, Spouse's ID no, Place of birth, Home address, Passport photo, Fingerprints, Scanned copy of birth certificate, Scanned copy of parents' ID, signature.

Source: The application form that was submitted by the user.

Outputs: User details to be used in ID registration.

Destination: Documents processing.

Action: The user selects the NationalID Application form then inserts the required details. Other documents that are needed should be attached together with the form. This form will be sent to the government for processing.

Requirements: An existing database containing user information.

Pre-condition: The user should be logged in to the system.

Post-condition: The user details are inserted into the database and the user waits for the confirmation status.

Side-effects: None

Function 4: Reapply ID

Description: An existing ID holder who has lost their ID reapplying for a new ID

Inputs: Attachment of a Police abstract and the user's ID number.

Output: User details

Source: the submitted Reapplication form

Destinations: Document verification.

Action: The user clicks on the reapplication button and fills in the details in the reapplication form and submits it. Other documents that are needed should be attached together with the form.

Requirements: The user should exist in the database.

Pre-condition: The user has lost their ID

Post-condition: The user waits for reapplication status.

Side-effects: A new national ID

USE CASE DIAGRAMS

Assumptions

The government has a portal when you submit your application form. The government admin can see your application on their end.

Once a user reapplies for an ID, it goes directly to the verification process done by the government admin since the details are already in their database.

