Great, let's start by creating a plan for the ShelTuh web application. Here's an outline of the steps we can follow:

1. Set up a development environment: Install a web server, PHP, and MySQL on your local machine or use a web hosting service with these technologies.
2. Design the database schema: Create the MySQL database with tables for users, categories, registration, services, testimonials, and contact messages. Follow the best practices for normalization and use singular table names.
3. Create the HTML/CSS templates: Use a CSS framework like Bootstrap to design the layout and style of the web pages. Create separate templates for the header, footer, and main content.
4. Implement the CRUD pages: Create PHP scripts to handle the create, read, update, and delete operations for each table. Use prepared statements and input validation to prevent SQL injection and other security vulnerabilities.
5. Implement user access control: Use PHP sessions to authenticate and authorize users based on their role (parent or admin). Implement access control for each page and feature based on the user's role and permissions.
6. Implement dynamic navigation bars: Use PHP scripts to generate dynamic navigation menus and breadcrumbs based on the current page and user role.
7. Implement the session management: Create a session\_start() function and a connect.php file to handle the database connection and session management.
8. Comment the code: Add comments to the HTML, CSS, and PHP code to explain its purpose and functionality.

Let's start by designing the database schema for the ShelTuh web application. Here's a suggested schema:

user

- id (int, auto increment, primary key)

- username (varchar(50), unique)

- password (varchar(255))

- role (enum('parent', 'admin'))

categorie

- id (int, auto increment, primary key)

- name (varchar(50))

registration

- id (int, auto increment, primary key)

- category\_id (int, foreign key to categories.id)

- type (enum('half-day', 'full-day', '1-day', '3-days', '5-days'))

- price (decimal(6,2))

service

- id (int, auto increment, primary key)

- name (varchar(50))

- summary (text)

- photo (varchar(255))

testimonial

- id (int, auto increment, primary key)

- service\_id (int, foreign key to services.id)

- date (date)

- first\_name (varchar(50))

- comment (text)

contact\_message

- id (int, auto increment, primary key)

- name (varchar(50))

- email (varchar(255))

- phone (varchar(20))

- message (text)

In this schema, the **users** table stores the login credentials and role for each user, **categories** table stores the types of childcare categories available, **registration** table stores the different types of registrations and their prices, **services** table stores the details of services offered, **testimonials** table stores the feedback provided by parents, and **contact\_messages** table stores the messages submitted through the contact form.

We can create these tables using a MySQL client or through PHP scripts using the **mysqli** or **PDO** extensions. Let me know if you need any help with this step.