Phase 1: Group 8 Techinical Report

- Motivation
  - The motivation behind our project, SeniorUplift, stems from the growing need for easily accessible welfare
  resources for the elderly population in Texas. As healthcare needs increase with age, it is crucial to ensure
  that seniors can quickly locate nearby healthcare centers and nursing homes to receive proper care. Moreover,
  promoting mental health and well-being by providing information about local entertainment and social activities
  helps seniors maintain an active and enjoyable lifestyle. By integrating these resources into a user-friendly
  platform, we aim to uplift the quality of life for the elderly, ensuring they have easy access to the support
  and services they need in their community.

- User Stories
  - Easy Navigation and Overview :
    As a first-time visitor, I want to navigate the site easily and learn about the team to understand who contributed
    to the platform and the motivation behind why it was built.
  - View Details of My Options :
    As a user, I want to click on the places the website provides to easily get more detailed information, including
    addresses and contact info so I can attend these places.
  - Nearby Activity Options :
    As an elderly user, I want to discover new entertainment options near me so that I can participate in activities
    that are accessible and enjoyable.
  - Find Local Nursing Homes :
    As a family member looking for elderly care, I want to have a list of local nursing homes so that I can compare different
    options for my loved one’s care.
  - Display Healthcare Centers Information :
    As an elderly user, I want to view a list of nearby healthcare centers so that I can easily find the closest medical support
    that matches my needs.

- Frontend Architecture
  - Navbar that consists of links to splash page, about page, 3 model pages
  - Splash page contains brief description of website and welcome image
    - Relevant files: src/front-end/index.html
  - About page contains information on each of team member: biography, major responsibility, number of commits, issues, unit tests
    - number of commits and issues dynamically pinged from GitLab API
    - Relevant files: src/front-end/about.html
  - Model pages for nursing homes, health centers, and entertainment centers
    - contains 3 instance cards including image and 5 attributes
    - Relevant files:
      - src/front-end/entertainment.html
      - src/front-end/healthcare.html
      - src/front-end/nursing_homes.html

- Instances pages (9)
    - contains image, location map embedded from google maps embedded, name of place, address, detailed description,
      featured services, 5 attributes (same as ones on card), connection links to other two models, link to location’s website
    - Relevant files:
        - src/front-end/instance_one_health_care.html
        - src/front-end/instance_two_health_care.html
        - src/front-end/instance_three_health_care.html
        - src/front-end/instance_one_nursing_home.html
        - src/front-end/instance_two_nursing_home.html
        - src/front-end/instance_three_nursing_home.html
        - src/front-end/instance_one_entertainment.html
        - src/front-end/instance_two_entertainment.html
        - src/front-end/instance_three_entertainment.html

- RESTful API
    - Used to scrap and fetch data of model instances from our website
    - 6 requests are documented:
      Per model:
        - Get information on single instance given instance ID
        - Get information on all instances of a model. Parameters can be provided to sort, filter instances

- Tools
    - Bootstrap is used for styling effects and to make designing UI easier for our frontend template
    - Wrote the .gitlab-ci.yml file to validate whether the html syntax within the frontend folder is working.

- Hosting
    - NameCheap was used to manage the domain "senioruplift.me"
    - AWS Amplify was used to host our website for our frontend folder.

- Challenges
    - Finding time that everyone was avaible
    - Delegatinging tasks evenly to each group member
    - Figuring out how to ping the Gitlab library
    - Figuring out how to implement AWS