Genesys Code Challenge

A frontend application built with Angular to display top and latest news from the Hacker News API.

Features

Display Top News: Fetches and displays the top 500 news stories.
Display Latest News: Fetches and displays the latest news stories.
Pagination: Implemented a "Load More" button to display articles in batches of 10 for better performance.
Dynamic UI: Visually distinguishes between different news types (e.g., stories, jobs) to improve readability.

More details about the code challenge is available in the document - **Frontend Coding Challenge - Hacker News Updated 2024.pdf**

Technologies Used

- Frontend : Angular 19 , TypeScript , SCSS/CSS,
- Backend : Hacker News API (provided) (https://github.com/HackerNews/API)

Prerequisites

Make sure the following tools with specific version or later are installed on your machine.

```
Angular CLI: 19.2.17
Node: 23.5.0 (Unsupported)
Package Manager: npm 10.9.2
OS: win32 x64

Angular: 19.2.15
... animations, common, compiler, compiler-cli, core, forms
... platform-browser, platform-browser-dynamic, router

Package                         Version
-----------------------------------------------------------
@angular-devkit/architect       0.1902.17
@angular-devkit/build-angular   19.2.17
@angular-devkit/core            19.2.17
@angular-devkit/schematics      19.2.17
@angular/cli                    19.2.17
@schematics/angular             19.2.17
rxjs                            7.8.2
typescript                      5.6.3
zone.js                         0.15.1
```

Installation and Setup

- Clone the repository - git clone makarandvichare2/genesysNewsTest

- Navigate to the project directory - cd your-repository

- Install the dependencies - npm install

- Run the application - npm start
- Run the Unit tests - npm run test

```
--------------------------------------|---------|----------|---------|---------|-------------------
File                                  | % Stmts | % Branch | % Funcs | % Lines | Uncovered Line #s
--------------------------------------|---------|----------|---------|---------|-------------------
All files                             |   98.6  |    96    |  96.96  |  98.47  |
 app                                  |   100   |   100    |   100   |   100   |
  app.component.html                  |   100   |   100    |   100   |   100   |
  app.component.ts                    |   100   |   100    |   100   |   100   |
 app/common/enviornment              |   100   |   100    |   100   |   100   |
  enviornment.dev.ts                  |   100   |   100    |   100   |   100   |
 app/dashboard/components/news-dashboard|  97.43 |    50    |   100   |  97.29  |
  news-dashboard.component.html       |   100   |   100    |   100   |   100   |
  news-dashboard.component.ts         |  97.36  |    50    |   100   |  97.22  | 69
 app/dashboard/components/news-item   |   90    |   100    |   50    |  88.88  |
  news-item.component.html            |   100   |   100    |   100   |   100   |
  news-item.component.ts              |  88.88  |   100    |   50    |   87.5  | 24
 app/dashboard/components/top-menu    |   100   |   100    |   100   |   100   |
  top-menu.component.html             |   100   |   100    |   100   |   100   |
  top-menu.component.ts               |   100   |   100    |   100   |   100   |
 app/dashboard/constants              |   100   |   100    |   100   |   100   |
  api-endpoints.const.ts              |   100   |   100    |   100   |   100   |
 app/dashboard/enums                  |   100   |   100    |   100   |   100   |
  news-selection.enum.ts              |   100   |   100    |   100   |   100   |
  news-type.enum.ts                   |   100   |   100    |   100   |   100   |
 app/dashboard/models                 |   100   |   100    |   100   |   100   |
  news-response-model.ts              |   100   |   100    |   100   |   100   |
  pagination.model.ts                 |   100   |   100    |   100   |   100   |
 app/dashboard/pipes                  |   100   |   100    |   100   |   100   |
  date-in-words.pipe.ts               |   100   |   100    |   100   |   100   |
  news-title.pipe.ts                  |   100   |   100    |   100   |   100   |
 app/dashboard/services               |   100   |   100    |   100   |   100   |
  news.service.ts                     |   100   |   100    |   100   |   100   |
--------------------------------------|---------|----------|---------|---------|-------------------
```

- Run the cypress tests(e2e) - npm run e2e
- Run the storybook tests - npm run storybook

Development assumptions

- **Pagination** -
  - The provided API returns all top 500 news items in a single request. Client-side pagination was implemented to handle subsequent API calls for individual news details and improve application performance. The page size is set to 10 news items per page.

- **News Entity** - The "score" property from the API was assumed to correspond to the "points" property on the existing Hacker News UI.

- **Scope** - Only the "Top News" and "Latest News" features were implemented; other features were excluded from this challenge