



Welfare Is On

Developing an Employee Welfare Web Application

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1 Preamble

Leonardo's "Welfare Is On" is an application to interact with the company's welfare environment. The application offers an interactive platform for managing the welfare on behalf of administrators and employees.

2 Mandatory Part

Your work has to comply the following rules:

- The website's backend must be written in one of these two languages:
 - Java 21 LTS using the SpringBoot Framework 3.2.4 or newer
 - Python 3.5 or newer using the Flask or Django Frameworks
- The frontend must be written in Typescript using one of these two frameworks:
 - React
 - Angular
- The frontend must provide a responsive web design
- The frontend must be compatible with mobile devices (both iOS and Android – PWA)
- You are free to use any library you want to in this context. However, you must use the latest stable version of every library or framework used in your project
- Your website must be a single-page application
- Your website must be compatible with the latest stable up-to-date version of Google Chrome, Firefox, Edge, Opera and Safari browsers
- The user should encounter no unhandled errors and no warnings when browsing the application

2.1 Leonardo Welfare Project

The application "Welfare Is On" is a software that allows profiling a user by considering various aspects:

- Personal data (age, marital status - single/married - with or without children, with elderly parents, etc.)
- Interests (sports, reading, leisure, prevention)
- Geographical location
- Priority areas of interest, divided into the following four pillars: Physical, Economic, Psychological, and Family Well-being

Once the profiling is complete, the user will have access to the main sections of the "Leonardo Welfare House", available on Leonardo's Hub: Welfare.

1. Physical Well-being: with a link to the WellHub App (formerly known as Gympass)
2. Economic Well-being: with links to agreements (Corporate benefits, Aon and LGS), the Flexible Benefits platform, the sustainable mobility App JoJob, and the section for mortgages and subsidized credit, which is being prepared at the time being.
3. Psychological Well-being: with a link to the Stimulus platform and the B4ooks App
4. Family Well-being: with a link to Leonardo Care (portal dedicated to caregivers) and Leonardo Summer Camp (dedicated portal)

The user can also consult the "rules" present in the national and supplementary contract, mainly related to the Family and Economic Well-being areas. The various services described within the different pillars can be further explored in detail, and in some cases, also booked or purchased.

2.1.1 Graphical Requirements

The Leonardo Welfare project has to be compliant with Leonardo's Graphical Guidelines defined in the following document: "*Leonardo Guidelines.zip*". Below you can find screenshots that describe the graphical interfaces currently available:

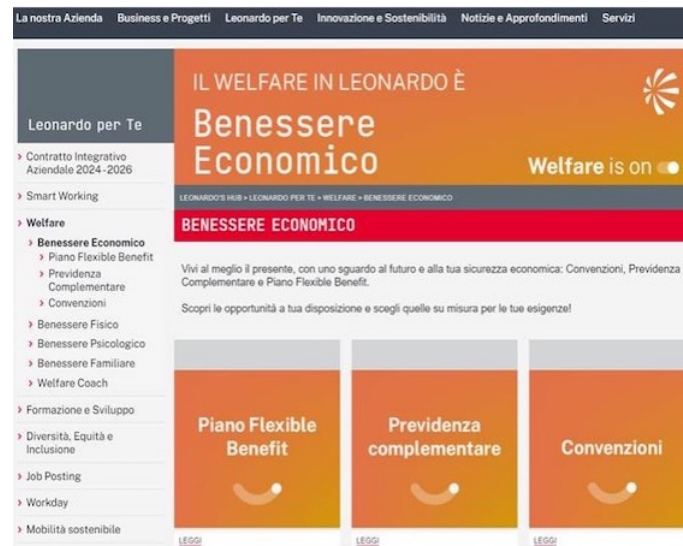


Figure 1: Descrizione dell'immagine

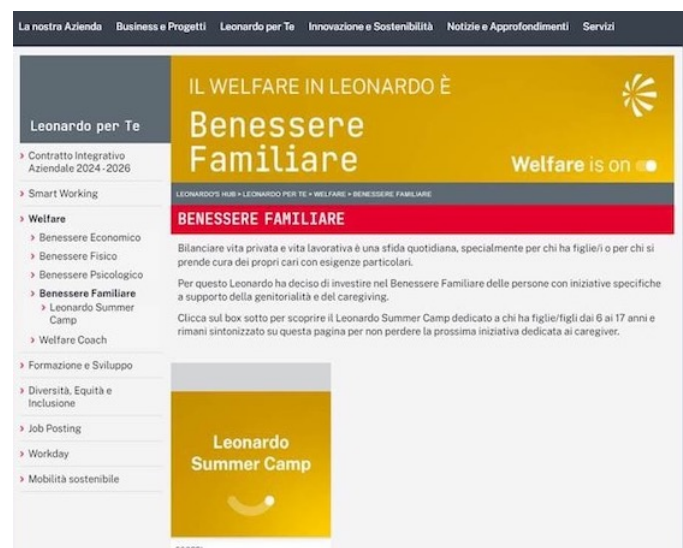


Figure 2: Descrizione dell'immagine



Figure 3: Descrizione dell'immagine



Figure 4: Descrizione dell'immagine

2.2 Security Concerns

In order to create a fully functional website, here are a few security concerns that you have to tackle:

- Any password stored in your database must not be plain-text
- Your application must provide server-side and frontend-side data validation
- You must implement some kind of server-side validation for forms and any user input
- Your website has to minimize the risks described by the OWASP Top Ten Standard Awareness Document
- Your application must expose the web services secured by HTTPS and authenticated (OAuth2/OIDC)
- The application will be protected against SQL Injection and Cross-Site Scripting (XSS)

3 Extras

Your work shall provide:

- Documentation related to the study of the renewal process
- Documentation related to the software architecture of the overall system
- Documentation related to the User Manual, describing all the possible operations