QUICKSCAN CANVAS

NAME: Spring Boot (Java, Gradle backend), Next.js (JavaScript frontend), PostgreSQL (JPA / Hibernate ORM)
DATE: July 18, 2026 3:07 AM

DESCRIPTION OF TECHNOLOGY

The Travel Planner App is a full-stack web application designed to support users in planning and managing trips efficiently. The chosen stack ensures a scalable, secure, and responsive system with smooth communication between frontend, backend, and database. It enables real-time trip management, user authentication, and reliable data handling while keeping the application performant and easy to maintain.

HUMAN VALUES

The application mainly supports users in organising their travel identity (e.g. frequent traveller, planner, explorer) by helping them structure and manage trips. It can improve confidence and reduce stress during travel planning. However, it may also reduce social planning interactions since users rely more on a digital system instead of planning collaboratively with others.

TRANSPARENCY

The application should clearly explain its purpose (trip planning and management) and how user data is used (e.g. saving trips, personalisation). Since this is an educational project, there is no business model, but transparency about data storage and usage should still be provided to users.

IMPACT ON SOCIETY

The problem is that planning trips manually using different tools is fragmented, time-consuming, and often confusing. Users struggle to keep all travel information in one place, which can lead to missed details, double bookings, or poor planning. This is a real problem for people who travel frequently or plan complex trips, although it is less critical for occasional travellers. The technology aims to solve this by centralising trip planning in one digital platform.

STAKEHOLDERS

- students
- tourists
- frequent travellers
- families
- developers
- educators
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SUSTAINABILITY

The system is designed as a lightweight web application, meaning energy use is mainly on servers and user devices. Efficient backend design, database optimisation, and minimal unnecessary data processing help reduce energy consumption. However, large-scale usage would still increase server energy demand.

HATEFUL AND CRIMINAL ACTORS

The system could potentially be misused if users store or share illegal content (e.g. fraudulent travel bookings or fake identities). Like most online platforms, it could also be used to organise scams or impersonate others if authentication is weak. However, the application itself is not designed for illegal activity and does not encourage it.

DATA

Yes. The system relies on user-input data, which can be incomplete, inaccurate, or outdated. It is important to recognise that travel data is subjective and may change quickly (prices, availability, schedules). The application does not assume data is always correct and should be designed to allow easy updates and corrections.

FUTURE

If widely adopted, the app could evolve into a full travel ecosystem used by many users to plan, book, and share trips. It could integrate AI recommendations, real-time travel updates, and collaboration features. At scale, it could influence how people plan travel, making digital trip planning the standard approach.

PRIVACY

Yes, the system may store personal data such as user account information (name, email), login credentials, and travel-related data like destinations, travel dates, preferences, and saved trips. This data is necessary for personalising the user experience and saving trip plans.

INCLUSIVITY

There may be bias based on user input and available data sources. For example, users from certain regions may have better travel suggestions or more relevant content if future features include recommendations. Also, design decisions may unintentionally prioritise certain travel styles (e.g. organised trips over spontaneous travel).

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HUMAN VALUES

How is the identity of the (intended) users affected by the technology?

To help you answer this question think about sub questions like:

- If two friends use your product, how could it enhance or detract from their relationship?
- Does your product create new ways for people to interact?…

TRANSPARENCY

Is it explained to the users/stakeholders how the technology works and how the business model works?

- Is it easy for users to find out how the technology works?
- Can a user understand or find out why your technology behaves in a certain way?
- Are the goals explained?
- Is the idea of the technology explained?
- Is the technology company transparent about the way their…

IMPACT ON SOCIETY

What is exactly the problem? Is it really a problem? Are you sure?

Can you exactly define what the challenge is? What problem (what 'pain') does this technology want to solve? Can you make a clear definition of the problem? What 'pain' does this technology want to ease? Whose pain? Is it really a problem? For who? Will solving the problem make the world better? Are you sure? The problem definition will help you to determine…

STAKEHOLDERS

Who are the main users/targetgroups/stakeholders for this technology? Think about the intended context by…

When thinking about the stakeholders, the most obvious one are of course the intended users, so start there. Next, list the stakeholders that are directly affected. Listing the users and directly affected stakeholders also gives an impression of the intended context of the technology.
…

SUSTAINABILITY

In what way is the direct and indirect energy use of this technology taken into account?

One of the most prominent impacts on sustainability is energy efficiency. Consider what service you want this technology to provide and how this could be achieved with a minimal use of energy. Are improvements possible?

HATEFUL AND CRIMINAL ACTORS

In which way can the technology be used to break the law or avoid the consequences of breaking the law?

Can you imagine ways that the technology can or will be used to break the law? Think about invading someone's privacy. Spying. Hurting people. Harassment. Steal things. Fraud/ identity theft and so on. Or will people use the technology to avoid facing the consequences of breaking the law (using trackers to evade speed radars or using bitcoins to launder…

DATA

Are you familiar with the fundamental shortcomings and pitfalls of data and do you take this sufficiently into…

There are fundamental issues with data. For example:

- Data is always subjective;
- Data collections are never complete;
- Correlation and causation are tricky concepts;
- Data collections are often biased;…

FUTURE

What could possibly happen with this technology in the future?

Discuss this quickly and note your first thoughts here. Think about what happens when 100 million people use your product. How could communities, habits and norms change?

PRIVACY

Does the technology register personal data? If yes, what personal data?

If this technology registers personal data you have to be aware of privacy legislation and the concept of privacy. Think hard about this question. Remember: personal data can be interpreted in a broad way. Maybe this technology does not collect personal data, but can be used to assemble personal data. If the technology collects special personal data (like…

INCLUSIVITY

Does this technology have a built-in bias?

Do a brainstorm. Can you find a built-in bias in this technology? Maybe because of the way the data was collected, either by personal bias, historical bias, political bias or a lack of diversity in the people responsible for the design of the technology? How do you know this is not the case? Be critical. Be aware of your own biases.…

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