



SmartFan Band

Scoutiva



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Summary

• The Problem and its solution :



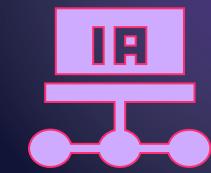
Environmental Challenges :

The wristband is designed to operate using solar charging, reducing energy consumption and promoting environmental sustainability.



Enhancing Fan Experience :

Smart guidance within stadiums has been implemented to help fans navigate easily, along with fast electronic payment to facilitate transactions and reduce waiting time.

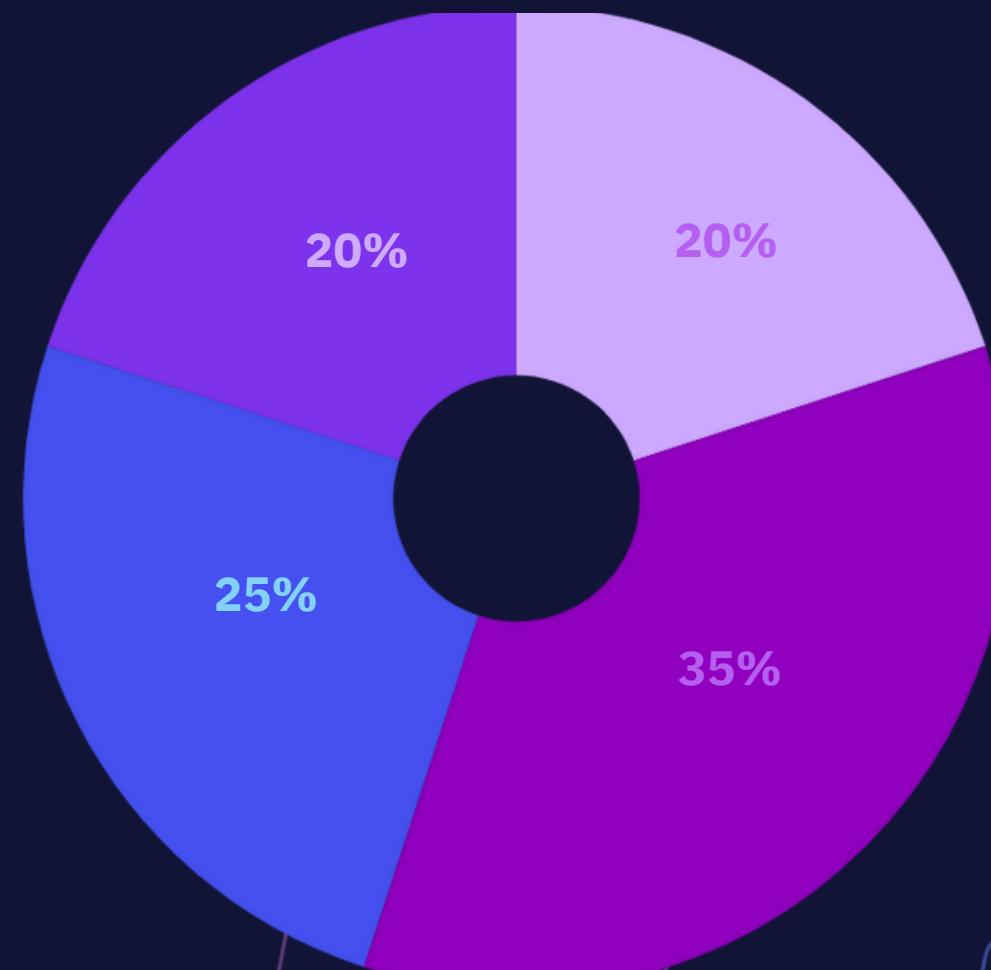


Supporting People with Disabilities :

The wristband is equipped with features such as vibration and smart guidance to assist movement and navigation within stadiums, enhancing the experience for individuals with disabilities.

• Used data

The Scoutiva project is based on 4 main sections of data, distributed as follows:



Augmented Reality (AR)

It is used to provide an immersive interactive experience, such as displaying live player data and guiding fans inside stadiums.

20%

Solar energy and security system

Includes data on solar charging efficiency, as well as data on emergency and rapid response systems.

25%

Artificial Intelligence (AI)

It constitutes the largest part, and is used to analyze user data within the stadium, predict their behavior, and improve security and emergency response systems.

20%

Fast payments and communications (NFC):

It is used to facilitate payment and link the bracelet to transportation and services via near-field communication technology.

35%

• Used data :

○ Data sources:

We relied on statistics we conducted ourselves, in addition to global studies and previous international experiences, in addition to analyzing user experiences and opinion polls.

○ Challenges:

We had difficulty accessing real, live data from inside the stadiums, which prompted us to use virtual data and reference models to compensate for the deficiency.

○ Data cleaning and processing:

- We compiled data from several sources, then categorized it by category (technical, security).
- We removed data that was irrelevant to the project's purpose or that was duplicate.
- We reorganized it in a way that helps build a clear picture of the fan's needs and their overall experience.

• Technologies Used :

The Scoutiva Band doesn't just offer digital services; it combines artificial intelligence with augmented reality to create a smart, interactive, and personalized fan experience. It features support for people with special needs and easy access to services, while promoting Saudi culture through live, interactive content in an innovative way, making attending matches an unforgettable experience.



Scoutiva is a revolutionary smart Band that redefines the fan experience in stadiums through artificial intelligence, augmented reality, and integration with government services, providing fans with a safe and unforgettable entertainment and cultural experience.



We need funding of 5,800,000 Saudi Riyals to develop the prototype of the smart fan Band, a national and global project in preparation for the 2034 World Cup.

The funding will be allocated as follows:



- 40% for designing and developing the smart Band, equipping it with health sensors and advanced communication technologies (NFC, BLE, and Sensors).
- 25% for software development and integration with the website, application, and government entities.
- 20% for field trials in Saudi stadiums and performance testing.
 - 10% for marketing and promotion locally and globally.
 - 5% for management and official licensing.

Fans suffer from overcrowding, loss of direction, and difficulty accessing services, especially for people with special needs. Cultural interaction and ease of payment and movement within stadiums are also absent.



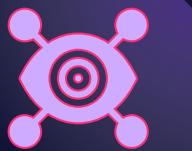
• Technologies Used :

The Scoutiva Band targets fans of the 2034 World Cup in Saudi Arabia, a sector with significant growth potential in the sports technology sector. With growing interest in fan experience and sustainable innovations, the market is expected to grow rapidly. Despite competition, the Scoutiva bracelet features technologies such as artificial intelligence, augmented reality, and solar power, setting it apart from the competition.

We invite investors and partners to support the Scoutiva Band, which will revolutionize the fan experience at the 2034 World Cup. Join us in this sustainable technological innovation and be a part of the future of sports!



- Artificial Intelligence (AI)
- Augmented Reality (AR)
- Solar Energy
- HTML
- CSS
- JavaScript



The smart fan Band "Scoutiva" enhances the fan experience in stadiums by integrating artificial intelligence and augmented reality technologies. The Band provides instant information about events and facilities, while also allowing communication with government entities to ensure the safety and security of fans. Additionally, the Band enables fans to access entertaining and educational content, creating a safe and memorable cultural experience during the 2034 World Cup.



Idea description

- **SCOUTIVA band**

Introducing an innovative smart bracelet that utilizes the latest cutting-edge technologies such as artificial intelligence and augmented reality. This bracelet aims to enhance the fan experience during the 2034 World Cup by providing instant information, ease of transactions, and operating on solar energy to be eco-friendly. It is designed to be highly secure and features an emergency function, ensuring the safety of fans during events. This innovation will be a remarkable and distinctive addition to the matches and is a much-needed innovation to enhance interaction and enjoyment in every fan's experience.





• How the Data Is Provided and Utilized :

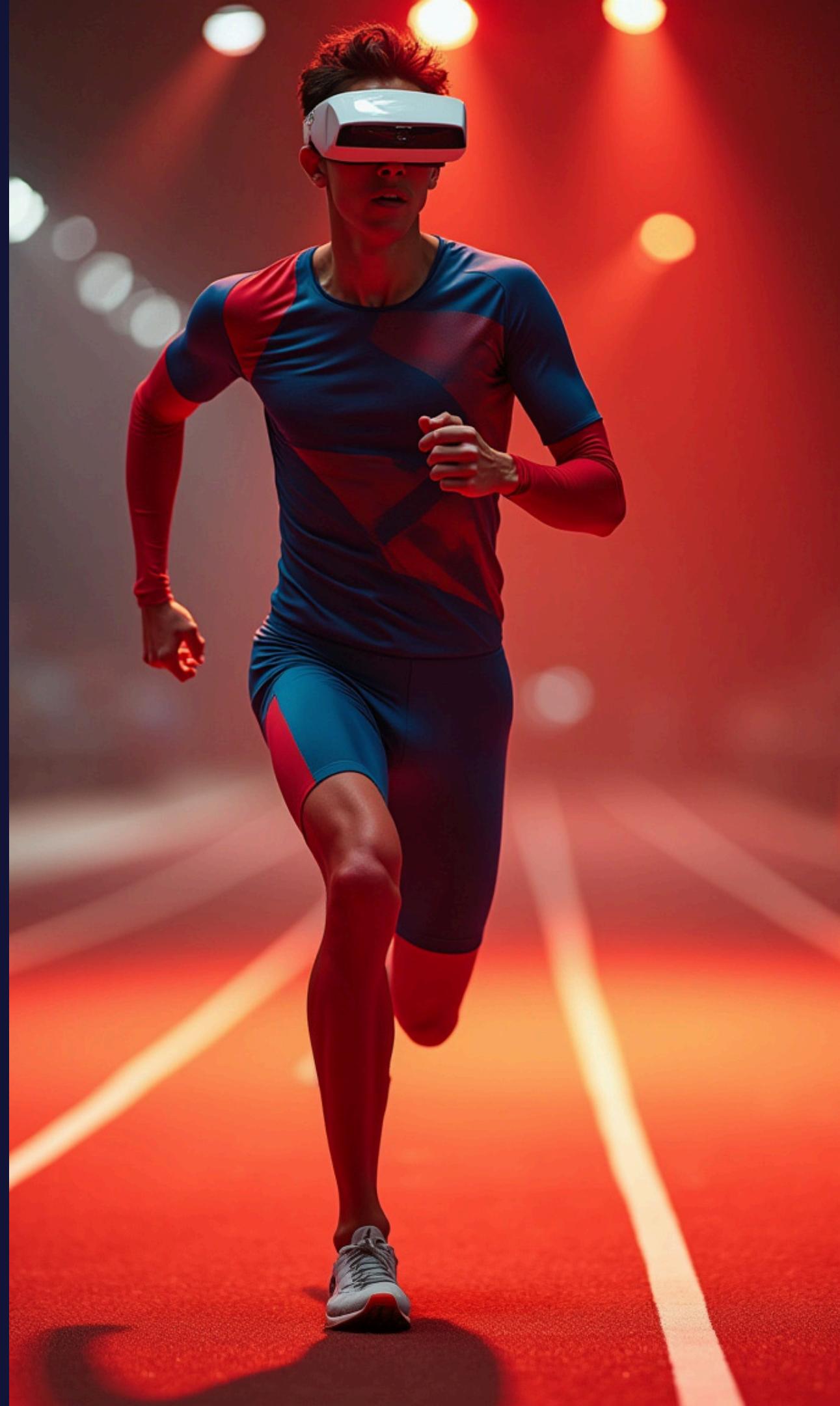
The SmartFan Band by Team Scoutiva leverages diverse data sources to create a smart, interactive fan experience for the FIFA World Cup 2034 in Saudi Arabia. Key data types include :

- 1 : Fan Behavior Data: From past events to support crowd navigation and purchasing insights.**
- 2 : stadium Infrastructure: For real-time interactive guidan .**
- 3 : Health Monitoring: Detects vital anomalies and triggers alerts .**
- 4 : AI Crowd Analytics: Analyzes live data to manage density and safety.**
- 5 : AR Content: Enriches fan interaction with stats and exclusive feeds.**
- 6 :Cultural Design: Inspired by Saudi heritage to reflect local identity.**
- 7 : Transport Integration: Enables smart access to public transit.**
- 8 : Solar Charging Data: Enhances energy efficiency for wearables.**

This data-centric model ensures innovation, safety, sustainability, and a fan-first approach aligned with Vision 2030 and FIFA's green goals.

• Goal Alignment :

The SmartFan **Band** aligns seamlessly with the core themes of the competition by enhancing fan engagement, ensuring safety, and improving overall stadium performance. By integrating AI, augmented reality, and real-time data, the band transforms the fan experience into an interactive and personalized journey. It provides smart navigation, instant health monitoring, crowd safety alerts, and immersive match analytics—positioning itself as a vital component of the smart stadium experience envisioned for the 2034 FIFA World Cup in Saudi Arabia.

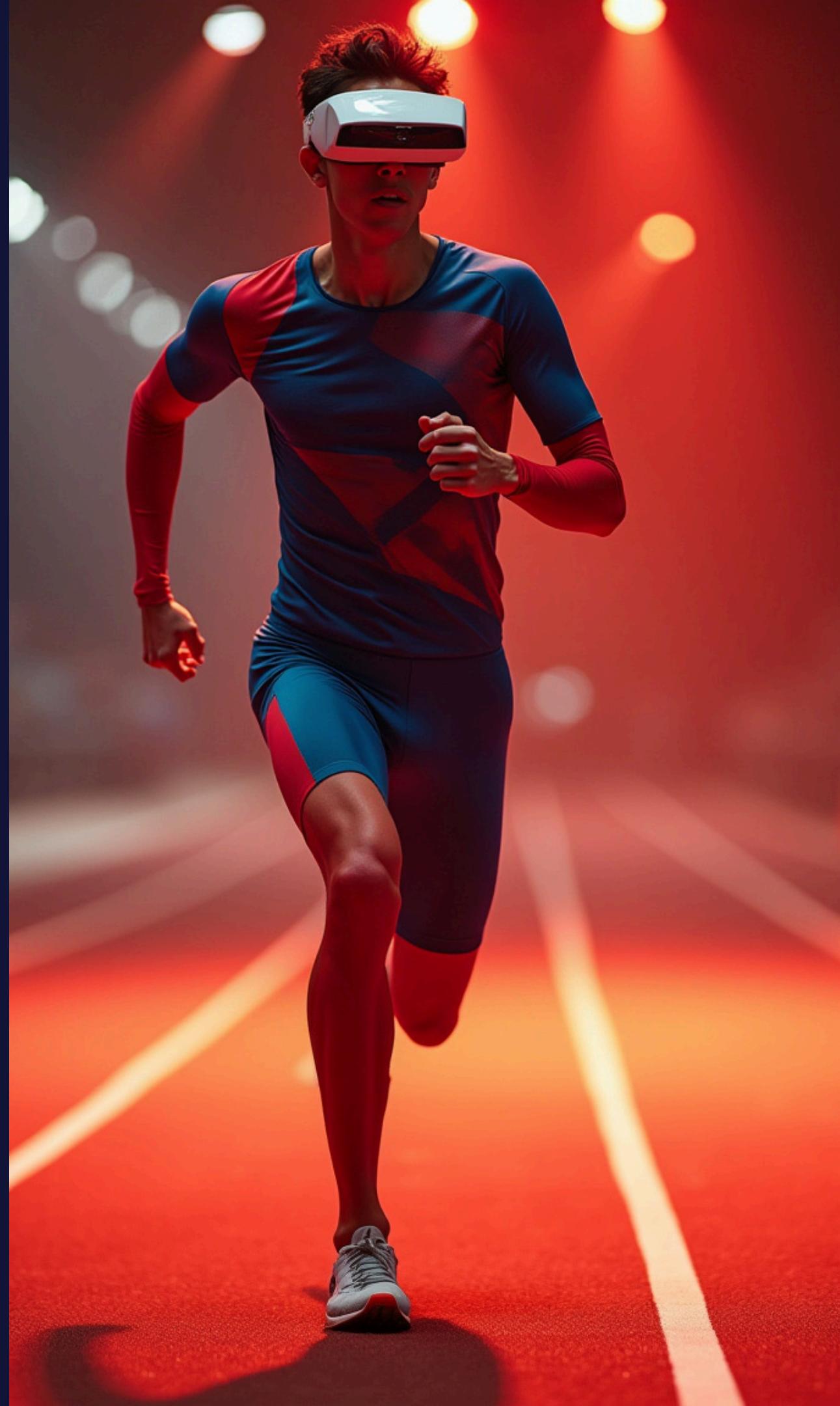


- Marketing in terms of team efficiency and idea to the committee :

At [Scoutiva](#), our idea wasn't just an innovation — it was a message. We brought together diverse expertise, complementary roles, and a shared passion that knows no limits. Every detail in our project was carefully crafted, driven by our vision to deliver a smart, human-centered, and sustainable solution that blends technology, identity, and the real needs of fans — to make the smart wristband a complete experience that elevates Saudi Arabia's presence in the 2034 World Cup.

Our team's competence wasn't born overnight — it is the result of passion, preparation, and foresight. And our idea was no coincidence; it was a thoughtful response to a real need, and a sincere desire to deliver something that reflects the spirit of our nation and redefines the fan experience.

We believe that innovation is one of the pillars of the future, and with this step, we contribute to building an ambitious nation — one that fulfills its vision and makes a global impact.

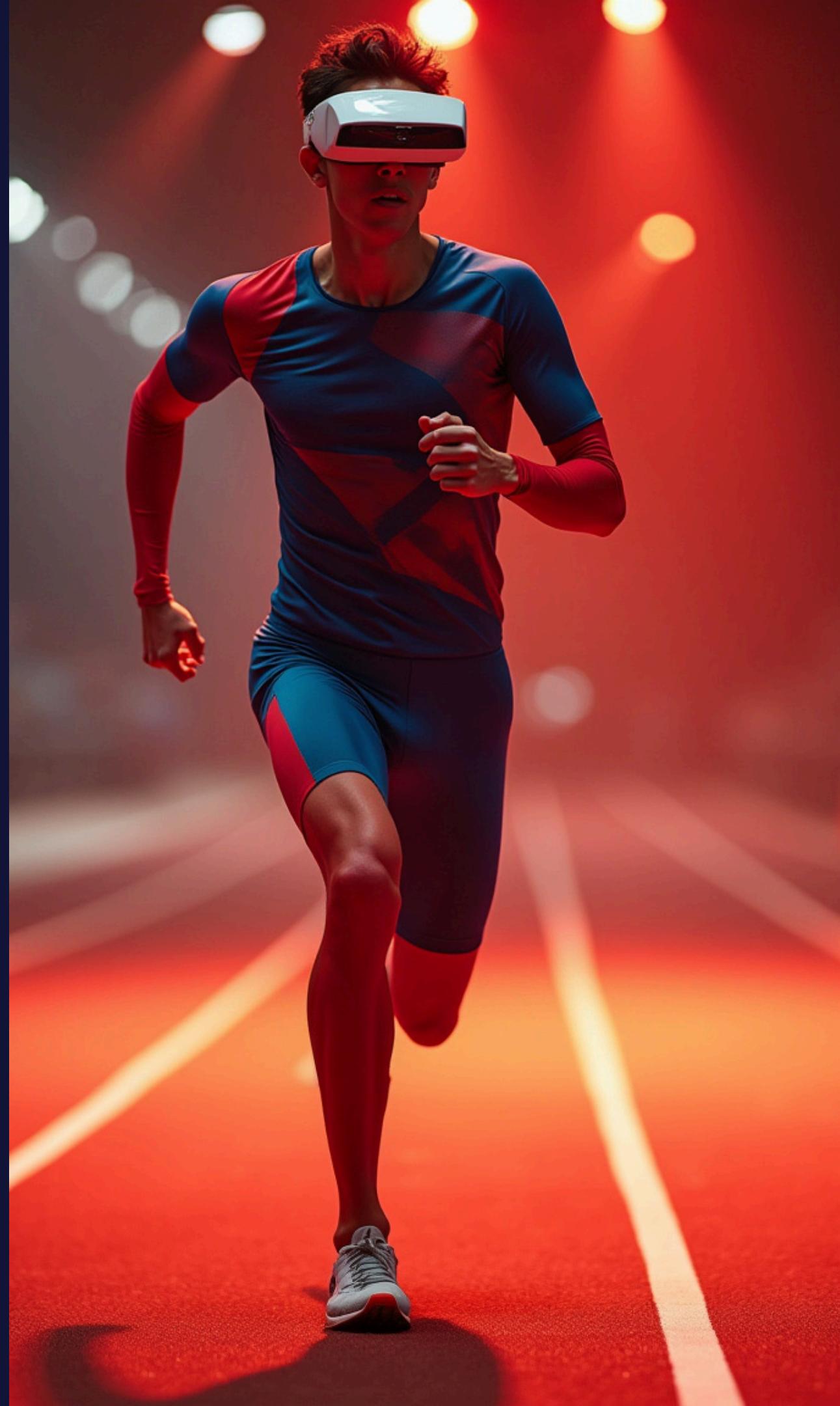


• Summary :

Scoutiva aims to enhance the fan experience at the FIFA World Cup 2034 through a smart wristband that utilizes artificial intelligence and augmented reality technologies. The wristband is designed to facilitate navigation within stadiums, improve safety, and boost interaction among fans during events. It features smart guidance, real-time alerts, integration with payment and transportation systems, and is powered by solar energy to ensure environmental sustainability.

The project was developed based on [three electronic surveys](#), which helped analyze fan needs and guided the design process. The prototype includes interactive navigation, emergency alerts, and support for individuals with disabilities, enhancing ease of movement within the stadium.

Scoutiva delivers an innovative sports experience aligned with FIFA standards, strengthening Saudi Arabia's position as a global sports destination, and offering a smart, sustainable solution that makes attending matches smoother and safer.



- Testing/Validation :

To ensure *Scoutiva's* effectiveness and alignment with the needs of fans in major sporting events, we developed a digital prototype of the smart device featuring a small, durable LED screen — a sleek and reliable design built to match the energy of the stadium without breaking under pressure. Our validation process followed

three main phases :

1 / Understanding Fan Needs :

- We launched a digital survey prior to development to understand the challenges fans face in stadiums and how open they are to using smart devices.
- The results were promising:
- 68.4% preferred spending their time watching the matches.
- 57.9% relied on smart apps for event information.
- 77.8% believed that tech tools could enhance their experience.
- This data confirmed a clear gap in the market — one *Scoutiva* is built to fill.

- Testing/Validation :

2 / Prototype Development & Testing :

- We designed a 3D prototype simulating the final product, with a compact LED screen for simple interaction and increased durability.
- Based on early feedback, we improved features like button placement, device fit, and usability to ensure a smoother and more user-friendly experience.

3 / User Feedback & Concept Refinement :

- After users interacted with the prototype, we conducted additional surveys to evaluate their response.
- 77.8% valued features such as electronic payment, live updates, and personalized notifications.
- 87.5% emphasized the need for better transportation and information access at venues.
- These insights guided us to refine *Scoutiva* into more than just a device – but a smart companion for fans.

- Testing/Validation :

The Result :

This process allowed us to transform *Scoutiva* from a concept into a practical, scalable solution ready to elevate the fan experience at the FIFA World Cup 2034 – aligning with Saudi Arabia's vision for innovation in sports and entertainment.

For more details on the survey results ,
please scan the QR code :



- **Demo /screenshots /Video / Simulations :**

Website:



App website:



• Challenges & Future Work :

- Limited access to real stadium environments for testing; we relied on 3D simulations.
 - Lack of integration with existing systems (e.g., payments, transportation, emergency services).
 - Outdated or unavailable digital maps of stadiums hinder smart navigation.
 - Insufficient support for fans with disabilities in current stadium infrastructure.
 - Compatibility testing across different devices and platforms is still needed.
- Support Needed :

- Access to up-to-date stadium maps and crowd data.
- Collaboration with organizers to test the wearable in real-world events.
- Integration support with e-payment and public transport systems.

• Future Work :

- Build a 70% functional prototype for live demonstration.
- Enhance design based on user feedback (UX/UI).
- Improve AR features for real-time interaction and match insights.
- Expand accessibility features for disabled fans.
- Implement solar-powered charging for sustainability.
- Develop health and emergency alert integrations.
- Pilot test in a live sporting event

- Teaser marketing :

The fan experience... starts the moment you wear the Scoutiva smart bracelet. Scoutiva isn't just a tech accessory; it's a smart companion that enhances your presence, saves your time, and ensures your comfort and safety throughout your time in the stadium.

Why is our bracelet different?

Because it combines everything a fan needs in one device:

- Smart guidance to easily book and reach your seat.
- Live notifications for offers, goals, and alerts inside the stadium.
- Fast and secure electronic payments inside the stadium.
- Support for those with mobility, visual, or hearing impairments.
- Augmented reality to add extra fun above the stands.
- Solar-powered for sustainable convenience.
- Cultural interaction that introduces visitors to our Saudi culture in a smart way.

- Our Vision :

The 2034 World Cup shouldn't just be a sports event... but a global smart experience managed with Saudi efficiency.

- Teaser marketing :

Scoutiva isn't just a concept – it's a compelling, ready-to-launch solution. We're not just presenting an idea; we're delivering a product that meets real needs, solves real challenges, and adds real value.

With its smart features, seamless user experience, and cultural integration, *Scoutiva* is designed to impress fans, organizers, and global audiences alike.

It's more than a bracelet – it's an innovation that transforms how fans live the World Cup. We believe in it, we built it with purpose, and we're confident it's ready to make an impact.



- Teaser marketing :

Imagine entering the stadium... and everything around you works for you, for your comfort. From the very first step... the bracelet knows your seat, guides you, notifies you, making sure you don't miss a moment.

Cheering? Charging? Paying?

All with the press of a single, smart, seamless, and interactive bracelet.

The Scoutiva bracelet doesn't just let you watch the match... it lets you live an unforgettable experience.

Because the 2034 World Cup in Saudi Arabia... has to be different. And we're here to prove that technology, comfort, and safety can come together in one design... raising the flag and enhancing the experience.

Tips:

- Practice Timing: 5 minutes flies by! Focus on the things that will give the most value to your idea for winning the competition. This means there is no any limitation for the number of the slides or what you should present (Structure your presentation).
- A picture is worth a thousand words: 1–2 slides/demos (avoid crowding).
- Make sure you don't face technical challenges in the online session (test mic, cam, speakers, etc.).
- Make sure to clarify if any outsourced model is used (For example pretrained).
- Don't claim what you have not done.



Submit your presentation on April 9th, 2025 & Good luck! 🎉

Thank You

