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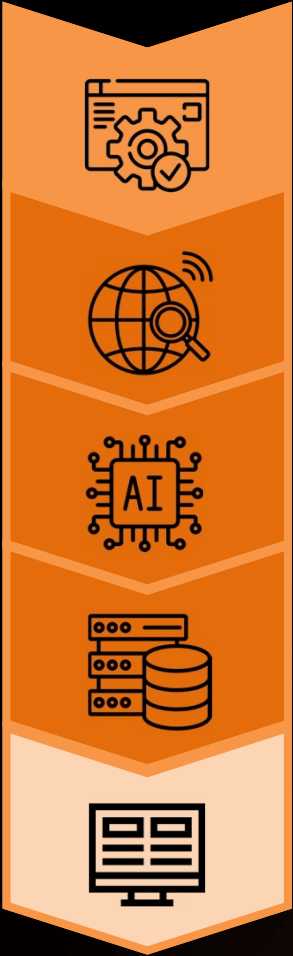
Company mentors: Adam Antal (IBM), Peter Butkovič (IBM)

University mentor: Sergej Chodarev (KPI)

Problem Description

Information about local events is scattered across multiple platforms such as social media and websites. Users often miss events of interest due to the lack of a centralized, automated solution for discovering and monitoring local activities. Manual searching is time-consuming and inefficient, most systems still require manual event input instead of automated scraping.

Architecture



- Admin Layer**
 Admin Web UI for managing event sources, scraping schedules, and newsletter configuration.

Data Collection Layer
 AWS-based scraping services automatically collect events from external platforms (e.g. Facebook, tootoot.fm).

AI Processing Layer
 LLM-powered processing handles content cleaning, relevance evaluation, and structuring of event details.

Storage Layer
 A centralized database stores processed events and ensures data consistency, scalability, and availability.

Distribution Layer
 Public Web UI for browsing city events and automated email newsletters for event distribution.



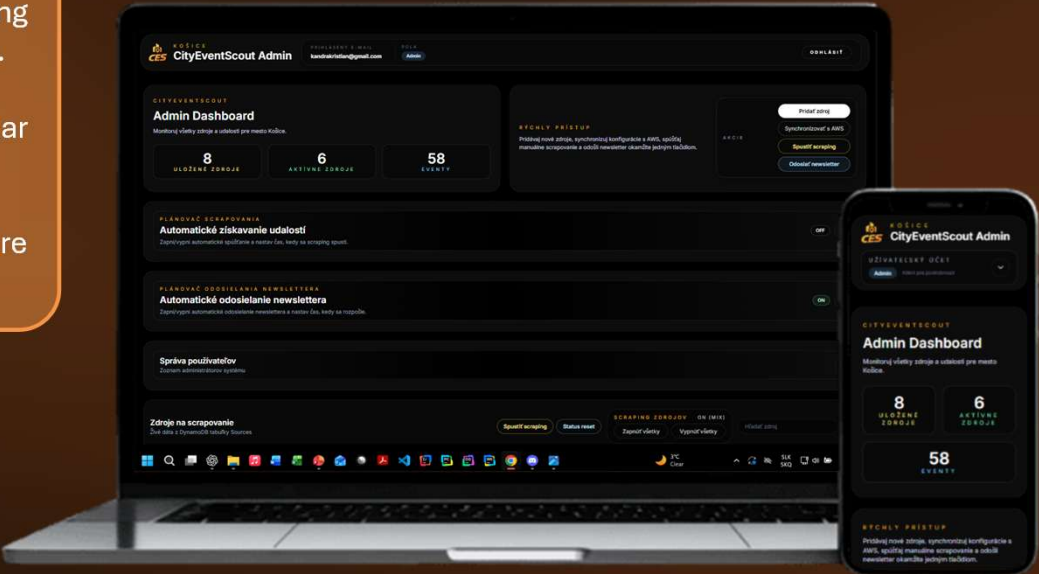
Tech Stack



Solution Evaluation

- Before:** Local events were scattered across platforms, requiring manual browsing and causing missed opportunities.
 - After:** CityEventScout provides a centralized source of local events and continuously discovers new events without manual intervention.
 - Quality improvement:** Event information is standardized and cleaned, improving readability and usability for end users.
 - Operational improvement:** Administration is reduced to configuring sources and schedules, instead of manually maintaining event content.
 - User value:** Users can discover events faster and receive regular updates, improving engagement with local activities.
 - Readiness:** The solution is deployment-ready and designed for future expansion by integrating additional event-source platforms.

Admin Dashboard



Video

