AMBIENT-IT

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Sign up

Outsystems training

4 days (28 hours)

Presentation

OutSystems is a low-code enterprise platform for building Web and mobile applications. This solution accelerates development thanks to reusable UI patterns, visual data modeling and workflow automation.

Our OutSystems training will enable you to integrate REST/SOAP APIs, manage roles and security, and orchestrate the application lifecycle with LifeTime.

You'll also learn how to optimize performance, master multi-environment deployments and leverage MABS for mobile apps.

Following this course, you'll be able to industrialize your applications and comply with governance requirements.

As with all our training courses, this one will introduce you to the latest stable version v2.24.0 of Outsystems.

Objectives

- Design an OutSystems Web/Mobile MVP
- Model data, workflows and UI patterns
- Integrate APIs and secure via roles/permissions
- Deploy with LifeTime and optimize performance
- Industrialize quality: testing and governance

Target audience

- Low-code developers
- IS integrators

- Project managers
- Tech leads
- Product owners

Prerequisites

- Basic knowledge of data modeling and APIs
- Notions of architecture and UX sensitivity

OutSystems training program

OutSystems overview and tools

- Low-code positioning: Web Reactive, Mobile, Traditional
- Service Studio, Integration Studio, LifeTime
- Artifacts: modules, applications, dependencies, versions
- Dev / test / prod environments and governance
- Workshop: first reactive project

Data & entity modeling

- Entities, Static Entities, attributes and relationships
- Aggregates, advanced SQL, filters
- Validation rules and integrity constraints
- Imports, reference data
- Best practices in naming and normalization

UI & design with OutSystems UI

- Reactive patterns, screen templates, themes
- Styles, variables, CSS/JS overrides
- Navigation, URL/slugs, state
- Accessibility and responsive
- Workshop: responsive dashboard

Business logic & actions

- Client/Server Actions, Data Actions, exceptions
- Timers and scheduled tasks
- Reuse: Libraries, core vs. end-user
- Traces, logs, error handling
- Flow structuring and rapid testing

Integrations & connectivity

- REST/SOAP APIs: auth, pagination, errors
- Connectors: SSO, e-mail, files, external DBs
- Caching, retries, timeouts
- Securing secrets
- Workshop: consuming a REST API

Security & access control

- Users, Roles, Permissions
- Input validation, OWASP prevention
- Logs, audit, sessions
- Separation of responsibilities
- Workshop: role matrix

Performance & scalability

- Optimization Aggregates/SQL, indexes
- Static content, caching, CDN
- Lifetime Analytics and metrics
- Asynchronism, queues, parallelization
- Front-end checklist (Core Web Vitals)

DevOps & deployments with LifeTime

- ALM: Dev ? Test ? Prod
- Tags, versions, compare & merge
- Automation and approvals
- Rollback, hotfix, incidents
- Workshop: deployment pipeline

Mobile & offline

- MABS builds, certificates
- Offline sync and strategies
- Native capabilities (camera, push, geoloc)
- Cross-platform responsiveness
- Workshop: mobile screen + offline list

Architecture & reusability

- Canvas architecture, Core/Library/App layers
- Modular breakdown and dependencies
- API contracts, compatibility
- Code quality, patterns
- Anti-patterns to avoid

Testing & continuous quality

- Unit/integration strategy
- UI regression: principles & tools
- Test data and seeders
- Code review and DoD
- Workshop: test scenarios

Capstone & production release

- End-to-end MVP (data, UI, integrations)
- Security and performance checklist
- Release and hand-over preparation
- Evolution plan
- Workshop: demo + deployment

Companies concerned

This training course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced IT technology, or to acquire specific business knowledge or modern methods.

Positioning on entry to training

Positioning at the start of training complies with Qualiopi quality criteria. As soon as registration is finalized, the learner receives a self-assessment questionnaire enabling us to assess his or her estimated level of proficiency in different types of technology, as well as his or her expectations and personal objectives for the forthcoming course, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or security difficulties within the company (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

Teaching methods

Practical training: 60% hands-on, 40% theory. Training material distributed in digital format to all participants.

Organization

The course alternates theoretical input from the trainer, supported by examples, with brainstorming sessions and group work.

Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

Certification

A certificate will be awarded to each trainee who has completed the entire course.

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