# Emerald: Online Guideline Checking Tool

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### What is Emerald?

- Web app for guideline checking and scoring.
- Create and manage checklists.
- Invite reviewers to add reviews.
- Inspection of reviews.





## Terminology

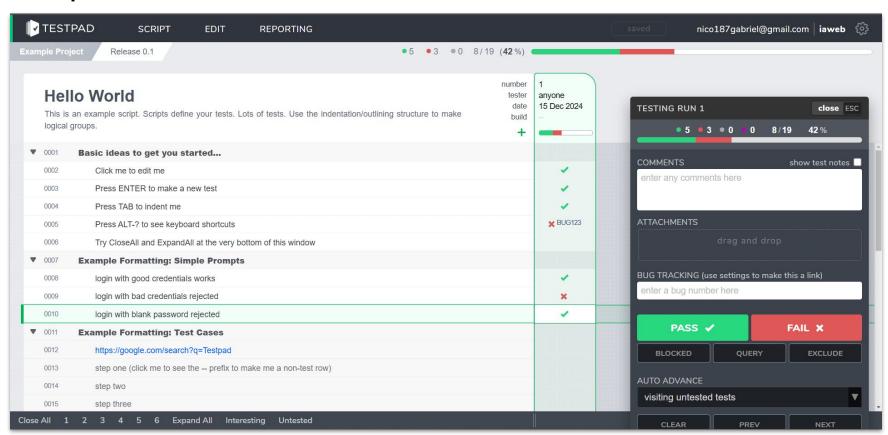
#### **Entities:**

- Project every project has a checklist.
- Criterion item in checklist.
- Review process of checking the criteria.

#### Roles:

- Admin manages users
- Project Owner creates project and assigns reviewers.
- Reviewer checks criteria.

## **Testpad**



# Objectives

## **Authentication and Authorisation**

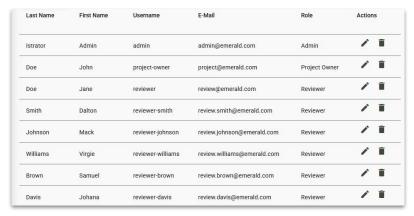
- Login- and logout functionality:
  - o JWT authentication with token refresh logic.

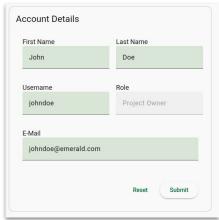
- Role-based authorisation in frontend and backend:
  - Not every user can access every page or API endpoint.

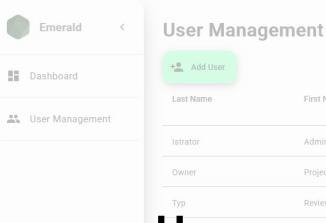


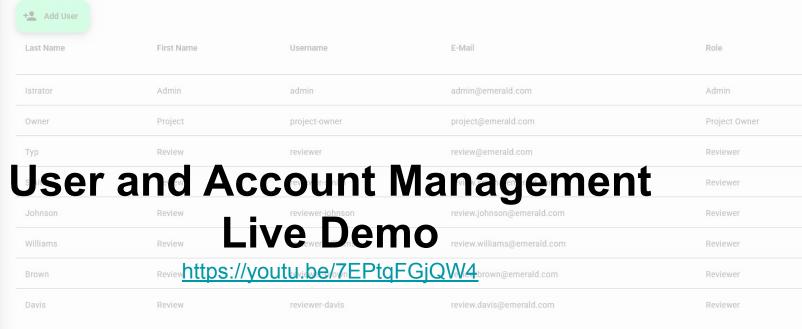
## User and Account Management

- Admins can add, edit and delete users, but not maintain projects.
- Reviewers and Project Owners can change only their own data.







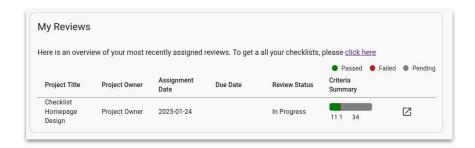


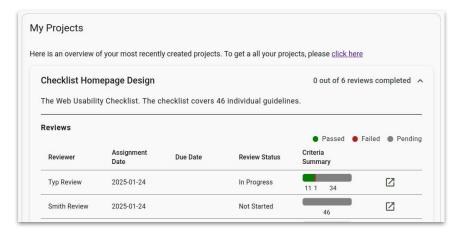




### **Dashboard**

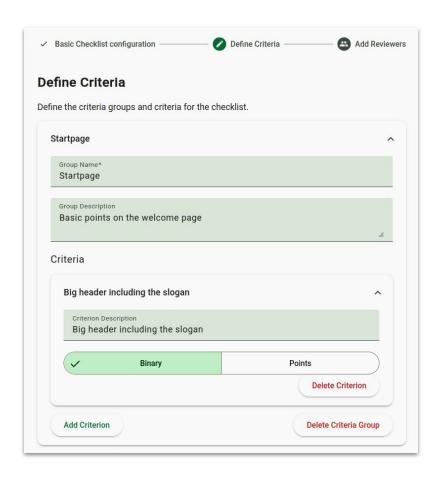
- For Reviewers:
  - Overview of the most recently assigned reviews.
- Additional view for Project Owners:
  - Overview of the most recently created projects.
  - Status of the reviews.

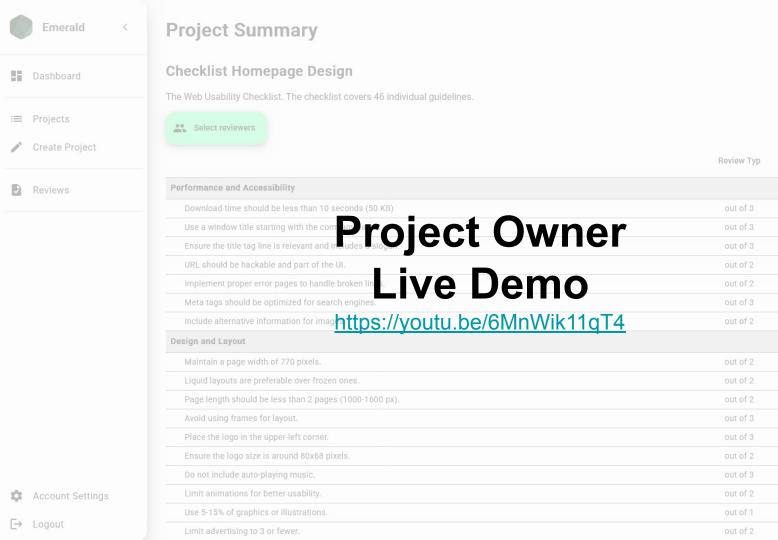




## Checklists

- Step-by-step creation of Projects:
  - Basic data (e.g. title, description, ...)
  - Definition of criteria groups.
  - Definition of criteria.
  - Reviewer assignment.
- Checklist Owner can track progress of reviews.



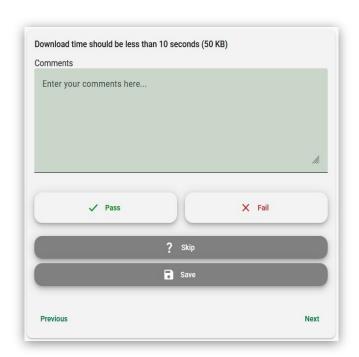


Review Smith

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## Review

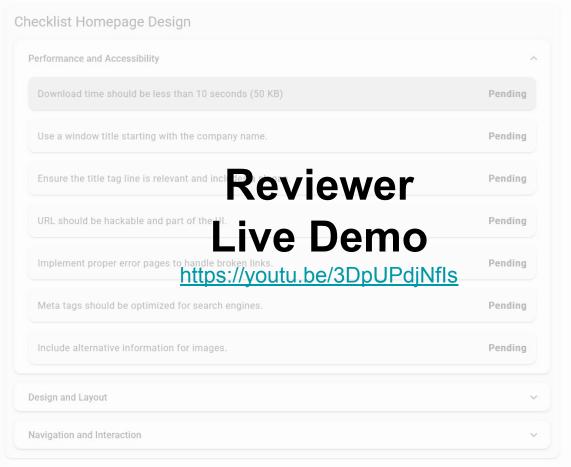
- Users can review assigned projects.
- Binary and point-based criteria.
- Users can leave comments on every criterion.
- Users can save the progress of a review and continue later.

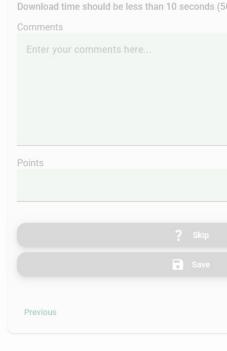




#### Reviews















Account Settings

## Deployment

- Nest.js statically serves the Angular frontend.
  - Only one application needs to be started.
- Freedom of deployment:
  - Platform must be capable of running Node.js.
  - Emerald demo: <a href="https://emerald-g8kn.onrender.com">https://emerald-g8kn.onrender.com</a>

#### Goals:

- Easy deployment, using just one executable.
- No dependencies on cloud services.
- Configuration via .ENV file.

## **Future Work**

- Checklist import:
  - o CSV import of criteria groups and criteria.
- Review result summarisation and visualisation:
  - PDF export of review results report.
- Bug tracking functionality.
- General visual and usability improvements.

## **Questions?**