# 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

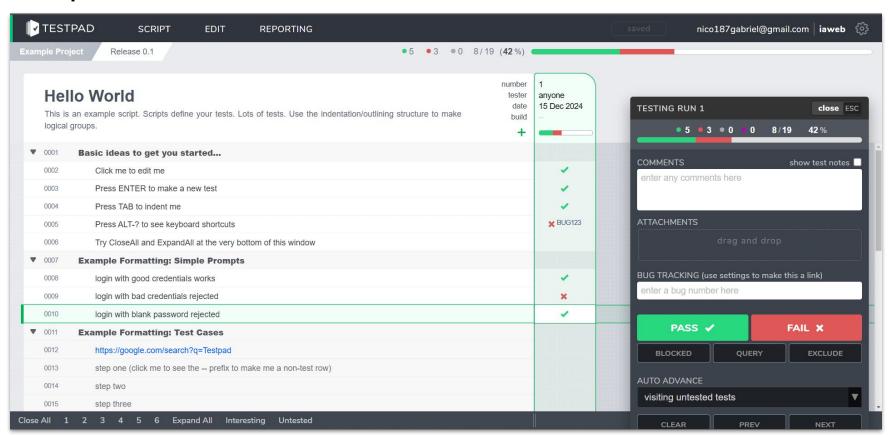
#### **Entities:**

- 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**

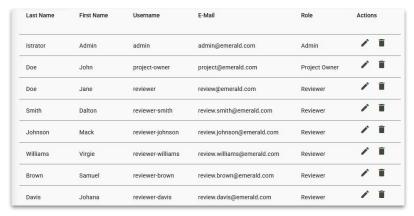
- Login- and logout functionality:
  - o JWT authentication with token refresh logic.

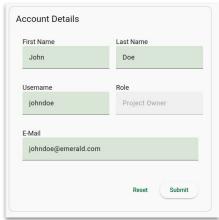
- Role-based authorisation in frontend and backend:
  - Not every user can access every page or API endpoint.

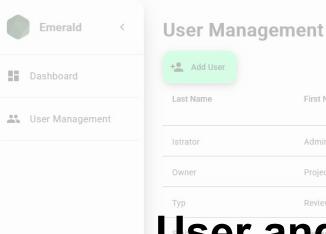


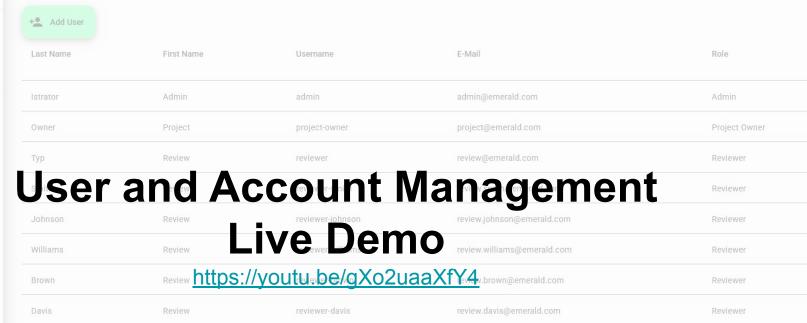
## User and Account Management

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







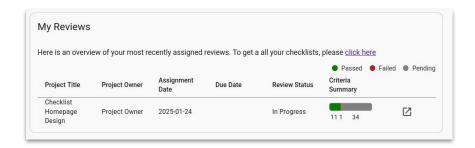


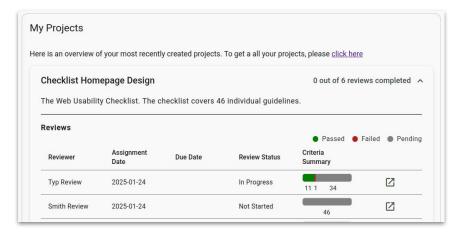




## **Dashboard**

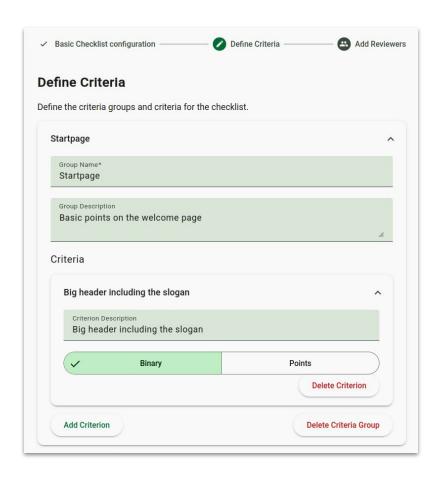
- For Reviewers:
  - Overview of the most recently assigned reviews.
- Additional view for Project Owners:
  - Overview of the most recently created projects.
  - Status of the reviews.

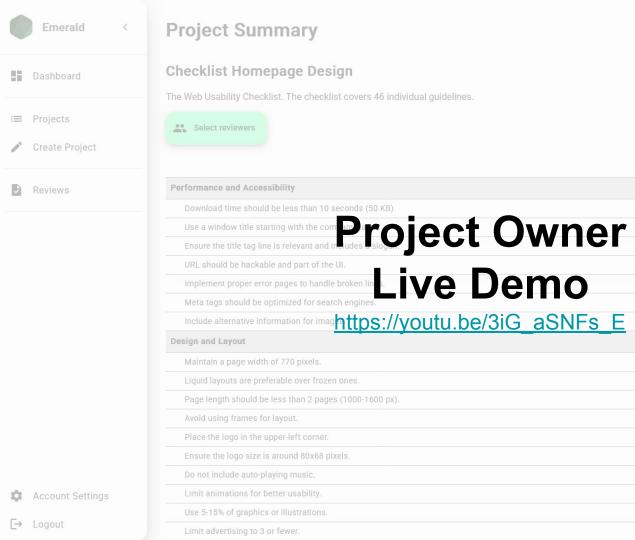




## Checklists

- 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.





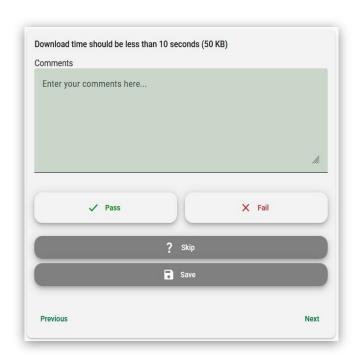
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Review Smith

Review Typ

## Review

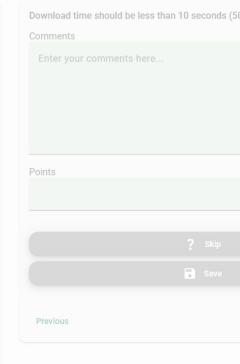
- Users can review assigned projects.
- Binary and point-based criteria.
- Users can leave comments on every criterion.
- Users can save the progress of a review and continue later.







Checklist Homepage Design Performance and Accessibility Pending Use a window title starting with the company name. Pending Reviewer Ensure the title tag line is relevant and inc Pending URL should be hackable and part of the Live Demo Pending Implement proper error pages to handle broken links. <a href="https://youtu.be/goLBtXk2\_98">https://youtu.be/goLBtXk2\_98</a> Pending Meta tags should be optimized for search engines. Pending Pending Design and Layout Navigation and Interaction









## 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?**