

Simple Electronic Signature (JEP) - Hackathon Assignment

Project Goal

To create a **web application** that will allow internal users **to sign a PDF document electronically** without the need for printing and scanning.

The application should be **simple, fast and intuitive** - this is a prototype, not a production solution.

Main features

1. **Document Upload**
 - The user uploads a PDF file.
 - Required case name (ID).
 - Optional comment.
 2. **Document signature**
 - A simple way to add a signature (e.g. signature image, flag or digital seal).
 - Once signed, the document is "locked" and the time/date is saved.
 3. **Approvers**
 - Option to add additional approvers (from a list or manually).
 - Order optional.
 4. **Notifications**
 - Email with a link to approve (just click "Approve" or "Disapprove").
 5. **History of**
 - View the signing status and the final document.
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Technical requirements

- **Front-end:** React, Vue or simple HTML/CSS.
 - **Back-end:** Node.js, Python Flask or other preferred.
 - **Database:** SQLite, PostgreSQL or other (a simple document + signature table will suffice).
 - **Authentication.**
 - **Document format:** PDF (optional conversion from other formats).
 - **UX:** Minimize the number of clicks (goal: 6 max).
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Bonus points

- Approval option directly from email.
 - Easy versioning of documents.
 - UX optimization (clear interface).
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Workflow diagram



Hackathon output

- Functional prototype of the application (front-end + back-end).
 - Short presentation of the solution (max. 5 minutes).
 - README with instructions to get started.
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How to get started

1. Divide the tasks in the team (UI, back-end, DB).
 2. Implement a basic workflow:
 - Upload PDF → Signature → Approvers → Submission → History.
 3. Test the prototype and prepare a demo.
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Additional information:

- Minimize complexity - the goal is a working prototype.
- Use open-source libraries for PDF manipulation
- For signature, you can just use a simple flag or embed an image as a signature to a given document, no need to create a cryptographic signature.
- Email notification will not be tested in the hackathon