

DENTRALINK

Bridging Digital Dentistry

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Challenges in Clinic-Lab Collaboration



- Choosing the right lab due to incompatible file formats
- Repeatedly enter the same case information
- Large files, slow transfers, demand excessive storage, and cause data damage over compression[1,2]

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Key Functions in Action

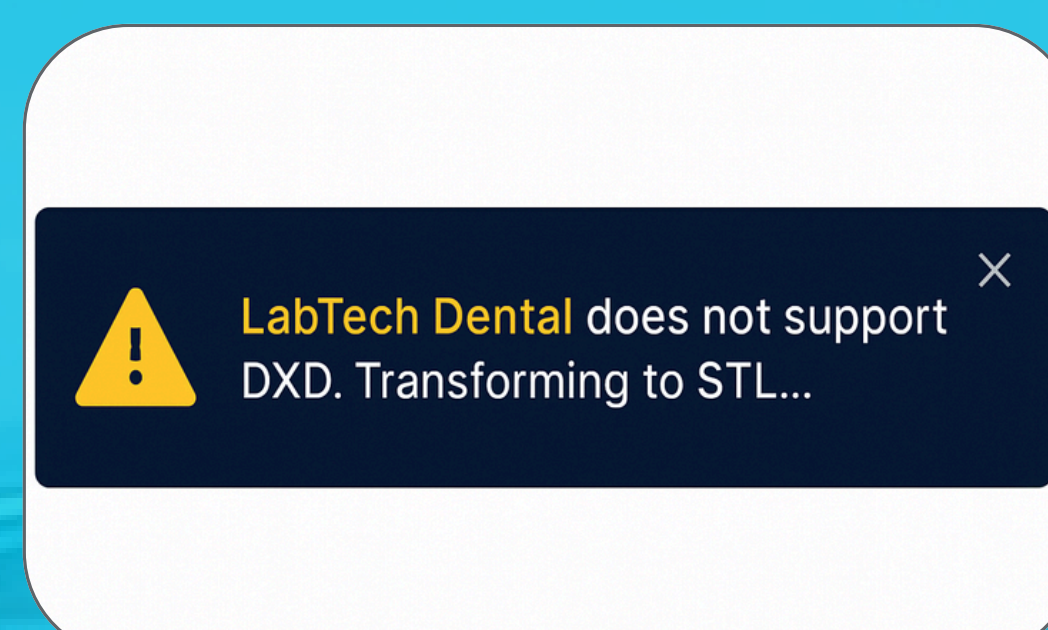


Figure 5 Transform function message

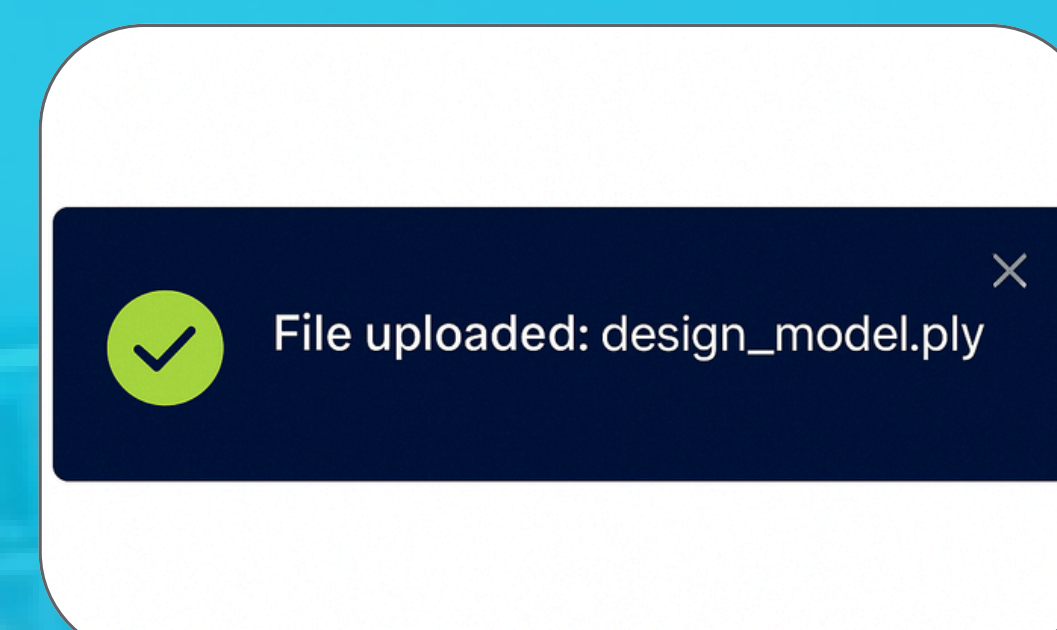


Figure 7 Recognition function message [3]

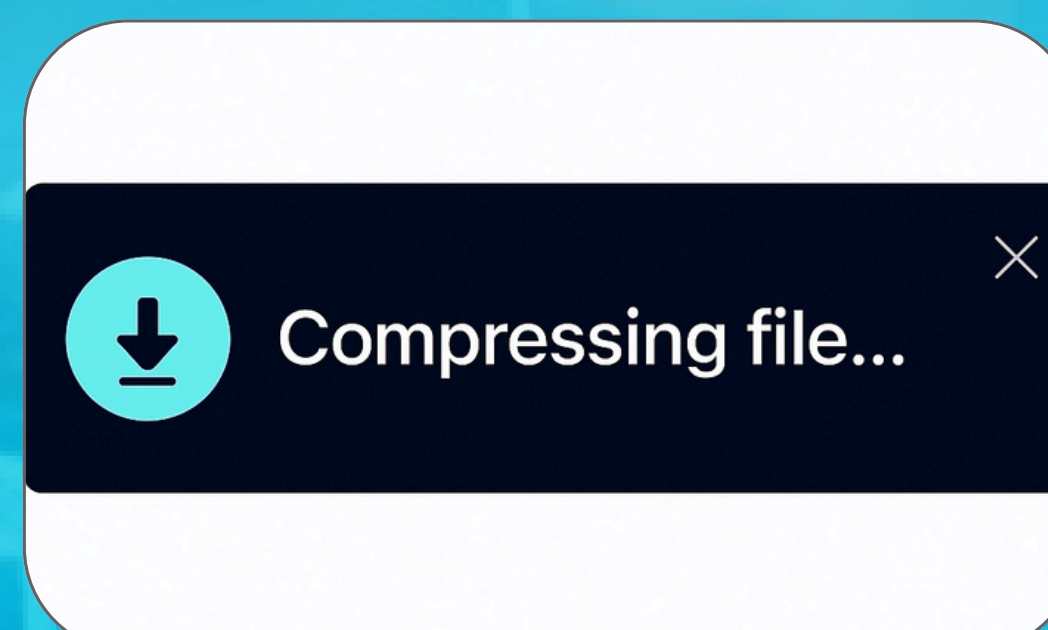


Figure 6 Compression function message

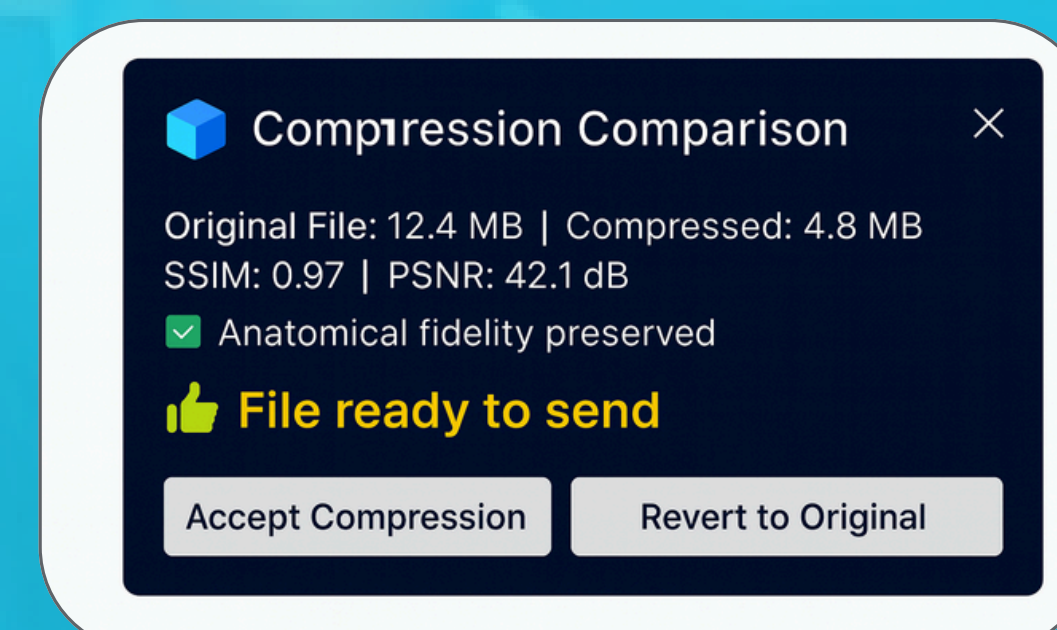


Figure 8 Compression evaluation function message

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Dashboard development

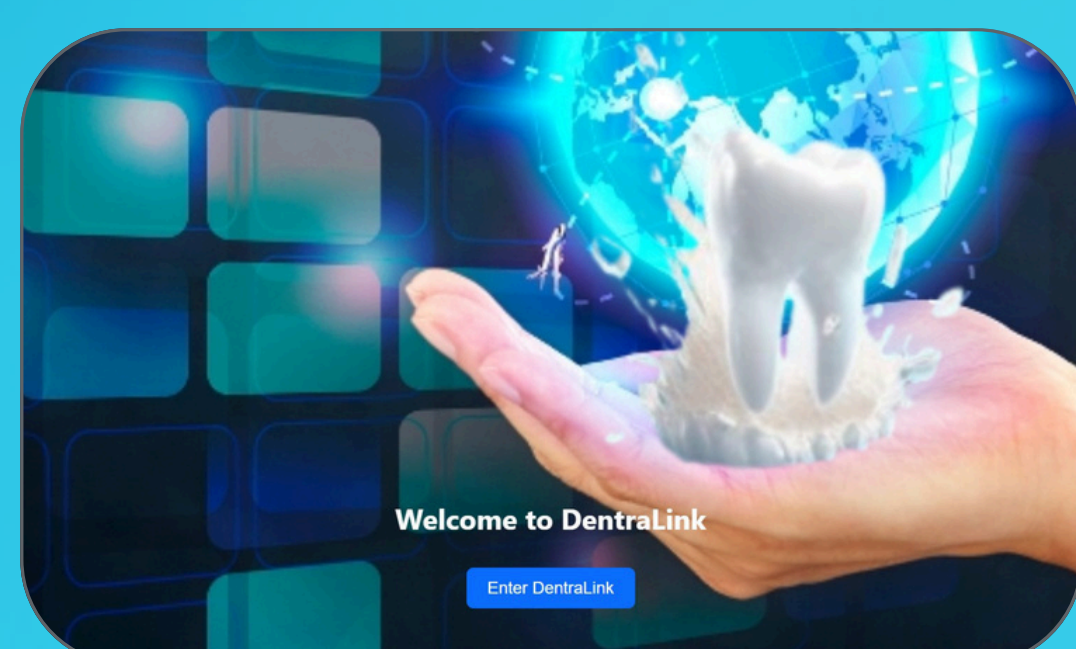


Figure 1 Front page of DentraLink Dashboard

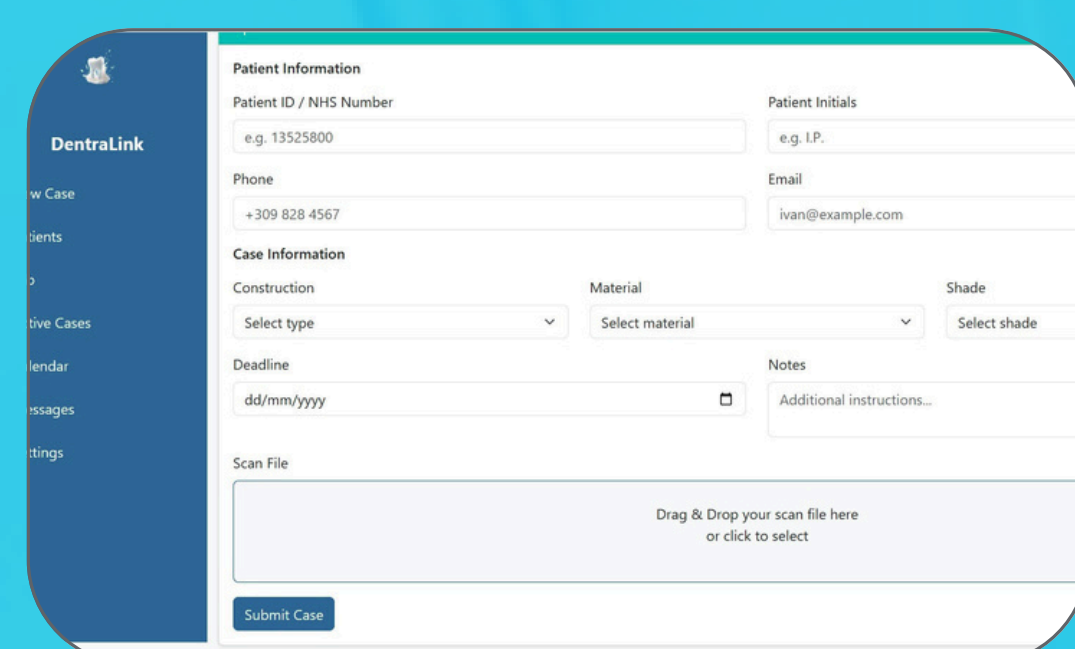


Figure 3 New case page of DentraLink Dashboard

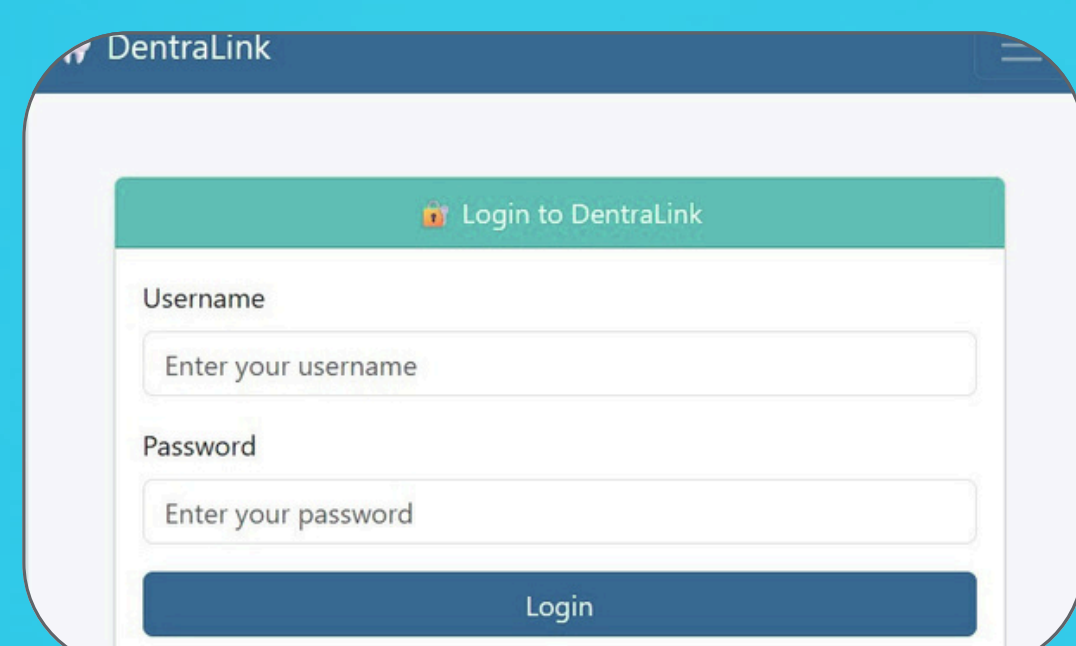


Figure 2 login page of DentraLink Dashboard

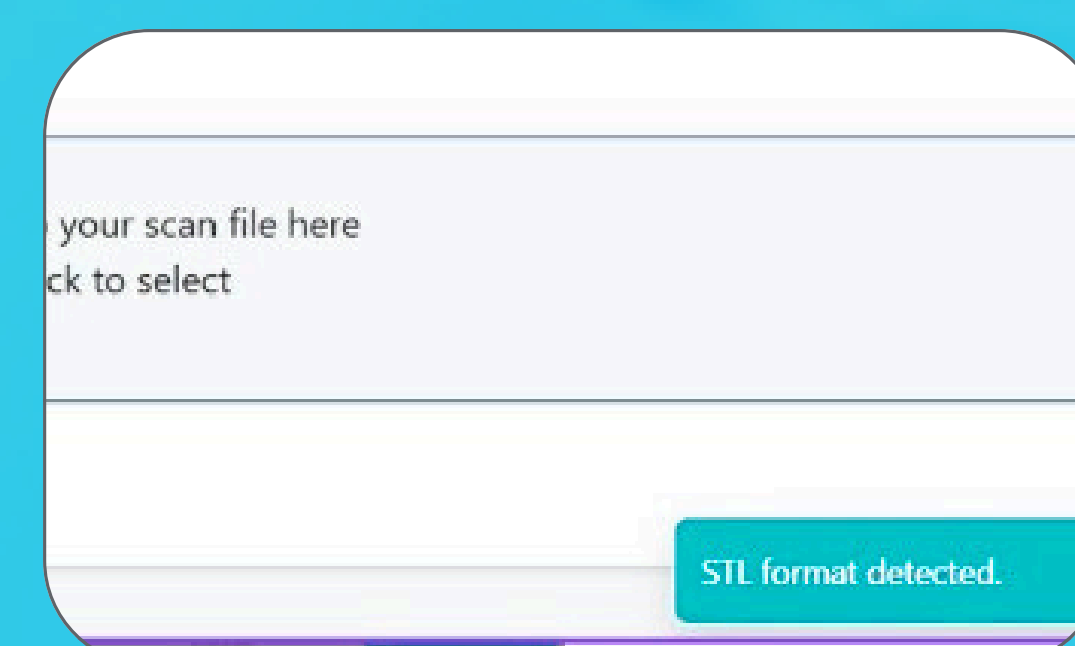


Figure 4 Upload STL file on DentraLink Dashboard

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Conclusion

- Frontend is developed
- UI components and message logic are in place
- Backend integration and data flow are still in progress[6].



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Evaluation



- Automatically converts the scan
- Send complete cases
- Files are intelligently compressed[4,5]
- Data is securely stored in a cloud platform
- Eliminates triple data entry
- Reduces storage requirements

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References

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