

Acoma: Future Email Services and Applications



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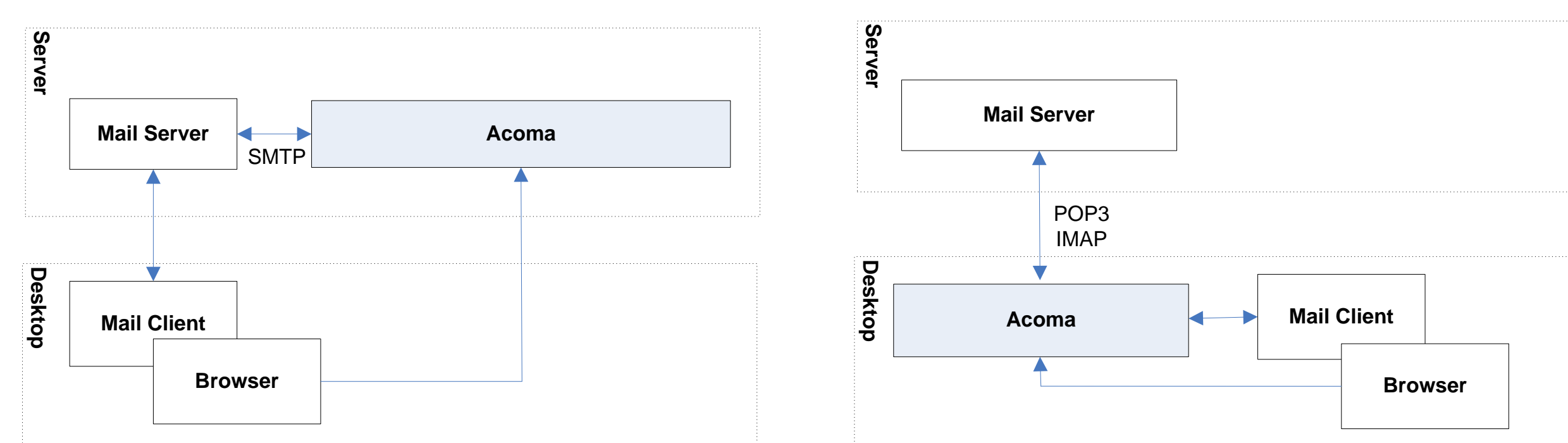
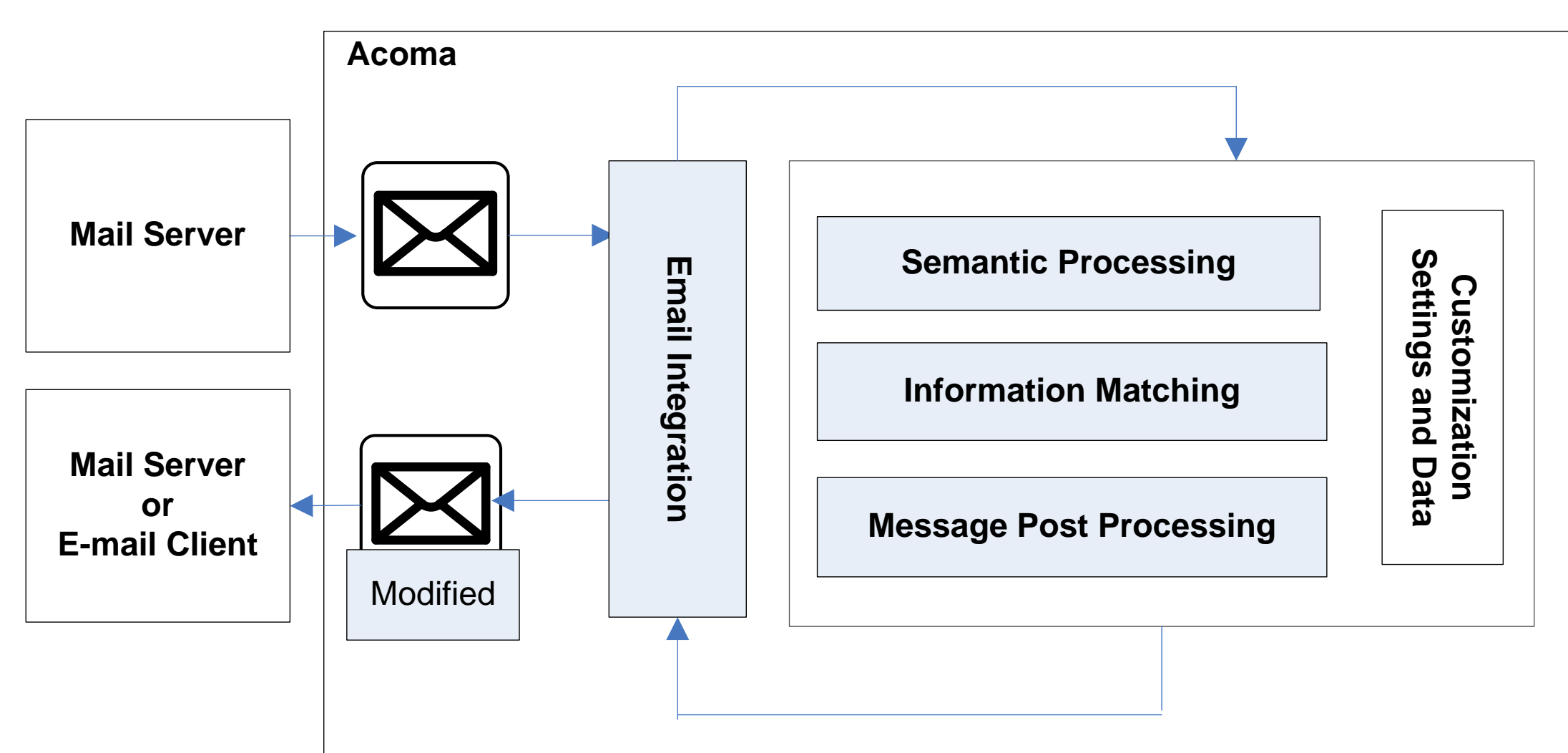
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Motivation

To use email in working context and integrate it with relevant information resources

Approach

- Integration with email as a proxy to SMTP or POP3
- Context detection using regular expression pattern
- Context Matching with defined hints
- Attaching relevant hints into an email message



Architecture

- **Email Integration** ensures integration with main email protocols such as SMTP or POP3 as well as basic decomposition of email.
- **Semantic Processing** is responsible for semantic annotation of email communication and semantic metadata creation based on the Ontea pattern annotation tool
- **Information Matching** matches and fills in the text notes/hints with data discovered by semantic processing based on the EMBET recommendation tool.
- **Message Post Processing** enriches email with contextual information by HTML or a text inline attachment, which is directly displayed in any email client when received.

Used Technology

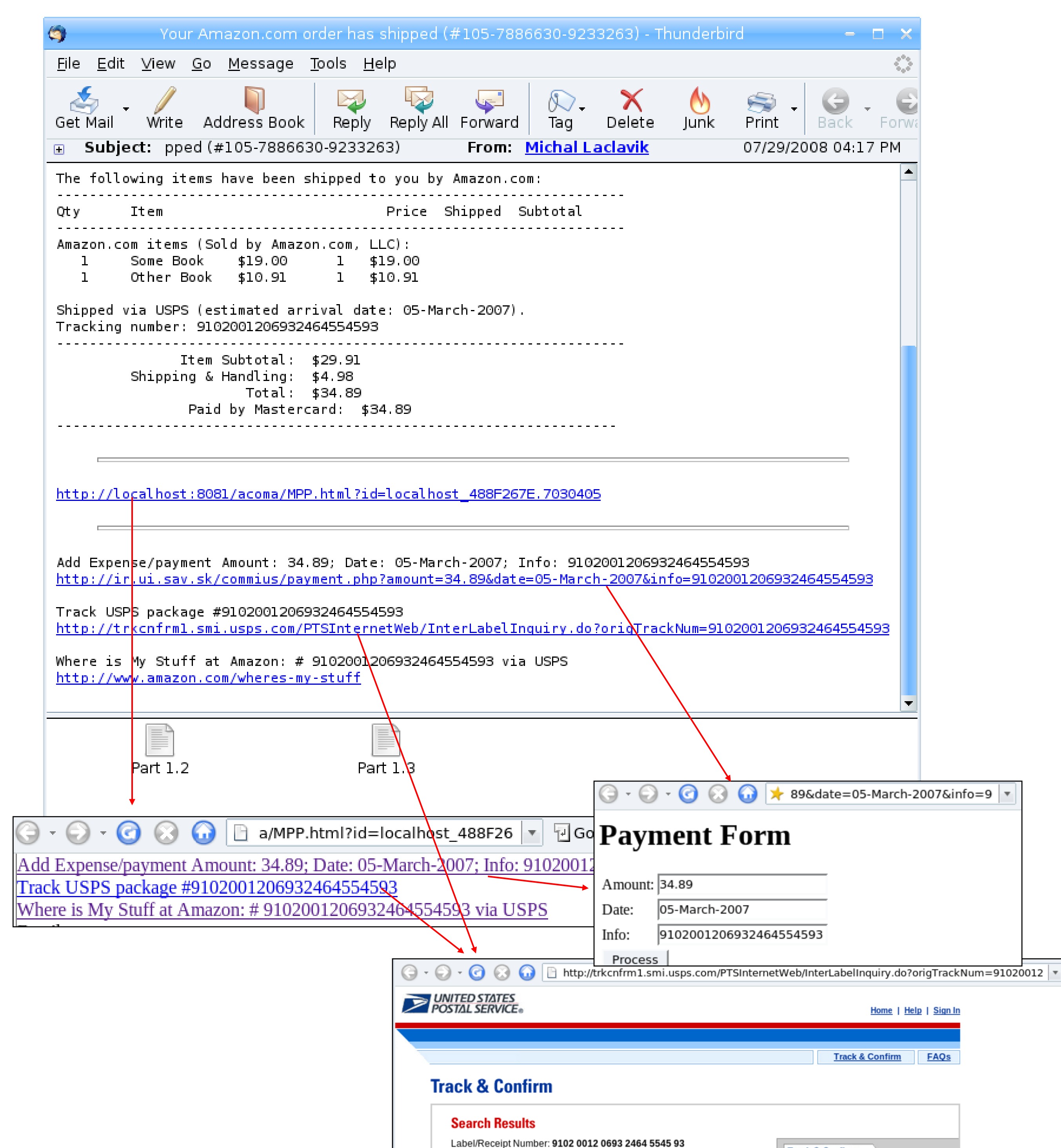
- Regular Expressions
- Java Mail

Used Tools

- Ontea
- Embet

Features

- Usable with any email client – no changes in working practices
- Add hints to an email message in working context
- Modular architecture based on OSGi
- An adaptable platform via creating, customizing and installing new modules
- Modular GUI – Link to web interface, Text or HTML attachment or full featured HTML email.



Notes	ID	Value
PAYMENT2	acoma:TotalAmount	
SHIPMENT	acoma:Date	
SHIPMENT_AMAZON	Track USPS package # {shipment:TrackingNumber}	shipment:TrackingNumber
	URL	shipment:Company
	query.do?origTrackNum={shipment:TrackingNumber}	company:USPS
		company:Amazon

Notes/Hints

- Interface for adding/editing contextual hints
- Objects in brackets are replaced by values from email context.
- Context is defined by selecting objects