Front-End Framework Selection

main research question   what kind of libraries and frameworks could be used to help self employed
people to create invoices in such a way that its easy to use, reusable and maintainable?

1.   what methods could be used to create a simple yet effective way to create an
invoice?

2.   what methods could be used to create a reusable incoice template that also has
the potential to be updated?

3.   what framework could be used to implement the required methods and features

4.   what libraries for the chosen framework could help with the implementations of
the required features

features

drag and drop   this way the user can create a template by adding a elements to the page and drag
it the the location that they want the information to be on

rest service client   this is needed to be able to manipulate the data on the database, that both the
companies and the customers can connect to.

multipage   this is needed because several crud functionalities are pressent in the appicaltion,
and if its all on one page than it becomes messy and very un user friendly

form validation   this is needed to avoid sending incomplete or incorrect information to the api,
which might cause problems

pdf conversion   this is needed, because the companies and the customers must be able to
download + print the invoices that are created

	react	angular	vue
drag and drop	+	+	+
rest service client	+	+	+
multipage	-	+	+
form validation	+	+	+
pdf conversion	+	+	+
	4	5	5

conclusion

both vue js and agular are capable of all the required functionalities, but from what i could see angular
seems to be a bit more easy to use for my required features . The coding structure of both frameworks are close, but based on the
examples that i could see of the required features it seems that angular is just bit more manageble and clean. that is why i have
chosen angular as the framework for my personal project.

Back-End Framework Selection

main research question	what framework could i use to create an safe yet easy to maintain restfull api that allowes for easy expension options
1.	how can i integrate a database framework that creates the tables and allows for easy data manipulation
2.	how can i keep my restfull api protected, so that not just anyone can request data from the database
3.	what can i use to properly encode and validate user passwords
4.	how and where can i upload files with the option to share it between companies and a user

features

database framework	this way i can create a easly manageble connection with the database with a lot of room for expentions
restfull api	this is needed to be able to use the application with several different kinds of front-end applications
password encryption	this is needed to be able to protect the users passwords in case someone gets their hands on the database
authentication services	this is needed to make sure that only people with the right connction code can access the back-end api, to prevent people for trying to steal confidential information that has been stored in the database
file upload support	this is needed to be able to upload and share invoices between companies and customers

	C#	Java
database framework	+	+
restfull api	+	+
password encryption	+	+
authentication services	+	+
file upload support	+	+
	5	5

conclusion

Both C# and Java offer all the components that are required to build my application, that is why after some thinking I've desided to chose Java for my project. the reason for the decision is that I would like to learn how to program into Java, so that I have some expiriance with both C# and Java for the next time i need to make a decision like this. another reason is that Java is something we have to use for the current semester, because of this it will be easier to ask for help in case I get stuck and in turn will allow me to learn and get a better understanding about the programming language faster.