## Make sure to cover all above bullet points

## Software

## Frontend

React has been chosen for the front-end framework, a JavaScript framework for building user interfaces. It is the most popular front-end framework used in services such as Twitter and Facebook. As it is the most popular, support for documentation is good, which is one of the major reasons that I chose this technology. Another major reason is that React is component based, and components can be reused to reduce repeated code. It is evident that there wlil be lots of reused components during development, when looking at the wireframe sketches for e-clinic (see below section). Components such as the message input box will be reused in multiple places, such as in the section for sending new messages or section for replying to existing messages. Another components that will be reused are the appointment cards for each upcoming appointment, and will be rendered with different ‘props’ passed to the component to render information for respective clients. Hence, this component functionality of React will aid with agile development, in that new ideas can be constantly integrated easily into the reusable component for far reaching effect.

For the backend, ASP.NET was chosen because of the above choice of using React. ASP.NET can be configured to function as

## Backend

* No async calls to Mongodb needed since no calls to external services that are expensive
* Use record types for entities (value based equality support)

## Behind the scenes

### Unit Testing

### Text Description automatically generated

### Text Description automatically generated



### Graphical user interface, text Description automatically generated

Text

Description automatically generated

### Text Description automatically generated

### Text Description automatically generated

### Observability

Health checks

### Maintainability

Docker

Graphical user interface, text

Description automatically generated with medium confidence

### Scalability and Load balancing

Graphical user interface, text, application, email

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Graphical user interface, text, application

Description automatically generatedText

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Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Text

Description automatically generated

Communication solution (talk to devs)

Technical solution

Combination of above

Biblio

Redirect action not working

<https://stackoverflow.com/questions/39459348/asp-net-core-web-api-no-route-matches-the-supplied-values>

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<https://github.com/docker-library/mongo/issues/406>

<https://ncl.instructure.com/courses/39992/files/4849415?module_item_id=1991352>

https://medium.com/@pjbgf/configuring-ci-for-net-core-using-travis-ci-and-xunit-cc0f809df4fb