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Move Health Data Forward Challenge

Solution summary

- The HealthyMePHR system will access the patient's clinical data from their FHIR enabled EMR and store it in HealthyMePHR, where the patient controls all access.
- The solution allows the patient to define their sharing policy: Who can access, what parts of her clinical data they can access, read vs write options and permission expiration dates.
- The HealthyMePHR solution will allow FHIR/HEART based electronic access to users the patient has identified by the patient's sharing policy.
- By providing a solution with patient-centered sharing, we can move the paradigm forward faster. As more organizational entities join HEART/FHIR based data sharing, this solution will continue to embrace new scenarios.
- Low-tech features, like faxing initial visit forms, will provide added value to early users.
- Meanwhile the patient will have their complete medical record at their fingertips for reference.

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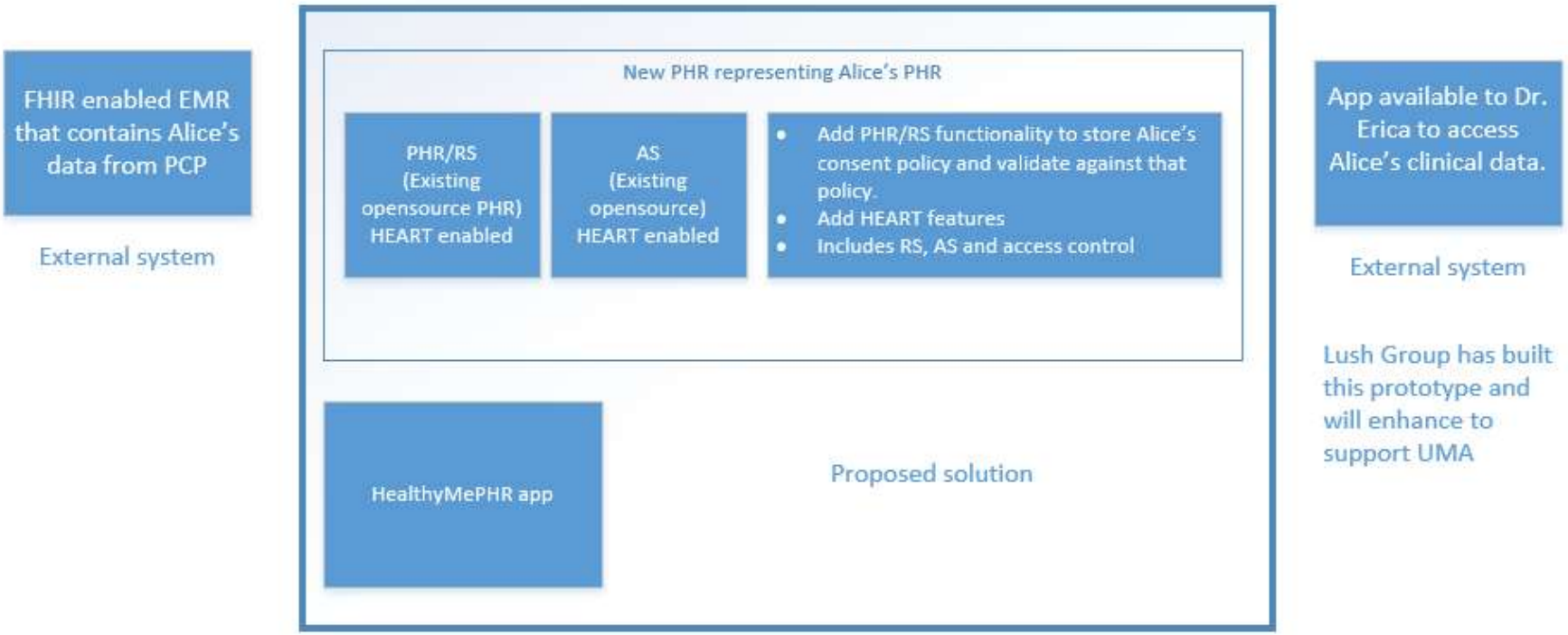
Solution Summary Components



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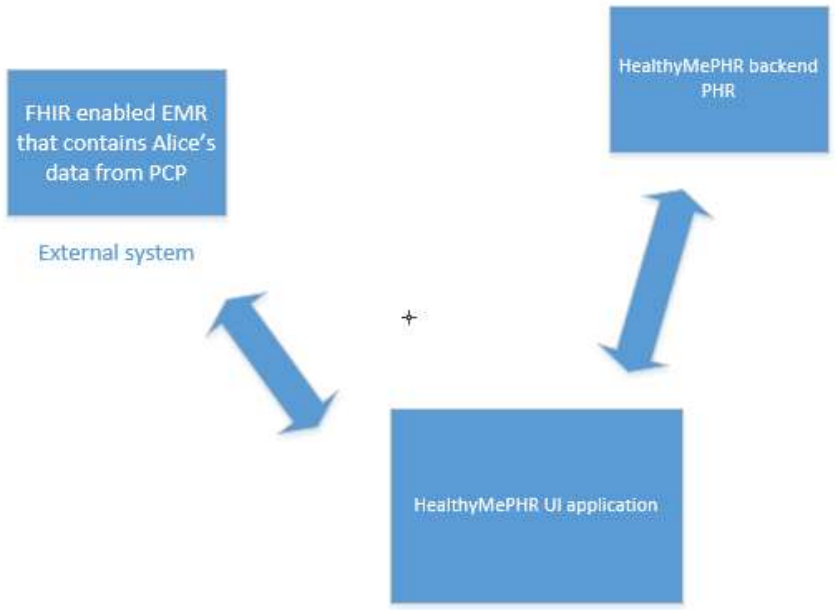
Key Challenge Functionality

- Alice accesses her clinical data from her PCP and stores it in her private copy PHR (Reads via FHIR from EMR using EMR authorized access for Alice, writes to her own PHR via FHIR.)
- Alice defines sharing policy via HEART standards which are stored in her AS, access control component using FHIR, OAuth and UMA.
- Once Alice includes Dr. Erica in a policy consent, Dr. Erica can access her data from the HealthyMePHR data store using her app of choice or the Lush Group provider app initially.
- Alice can share her data with a doc by Fax (simple button) while the industry evolves
- Alice can display her PHR on her smart device at will and show to a caregiver.
- Alice has her medical record at her fingertips for easy reference.

Alice imports her clinical data from primary care EMR



- Alice selects provider name
- Press 'Import Clinical Data'
- HealthyMePHR accesses her data via FHIR and stores in her own PHR repository (cloud based)

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Alice defines her sharing policy for each desired partner, including full access for Dr. Erica

Dr. Erica can access Alice's clinical data using the physician access app

This app is not part of this solution but can be used to demonstrate functionality. This app also runs on an iPad and could be used in a nursing home.

The solution will support HEART compatible 3rd party apps.

(It is the intent for Dr. Erica to eventually access Alice's data from her own HEART enabled EMR.)

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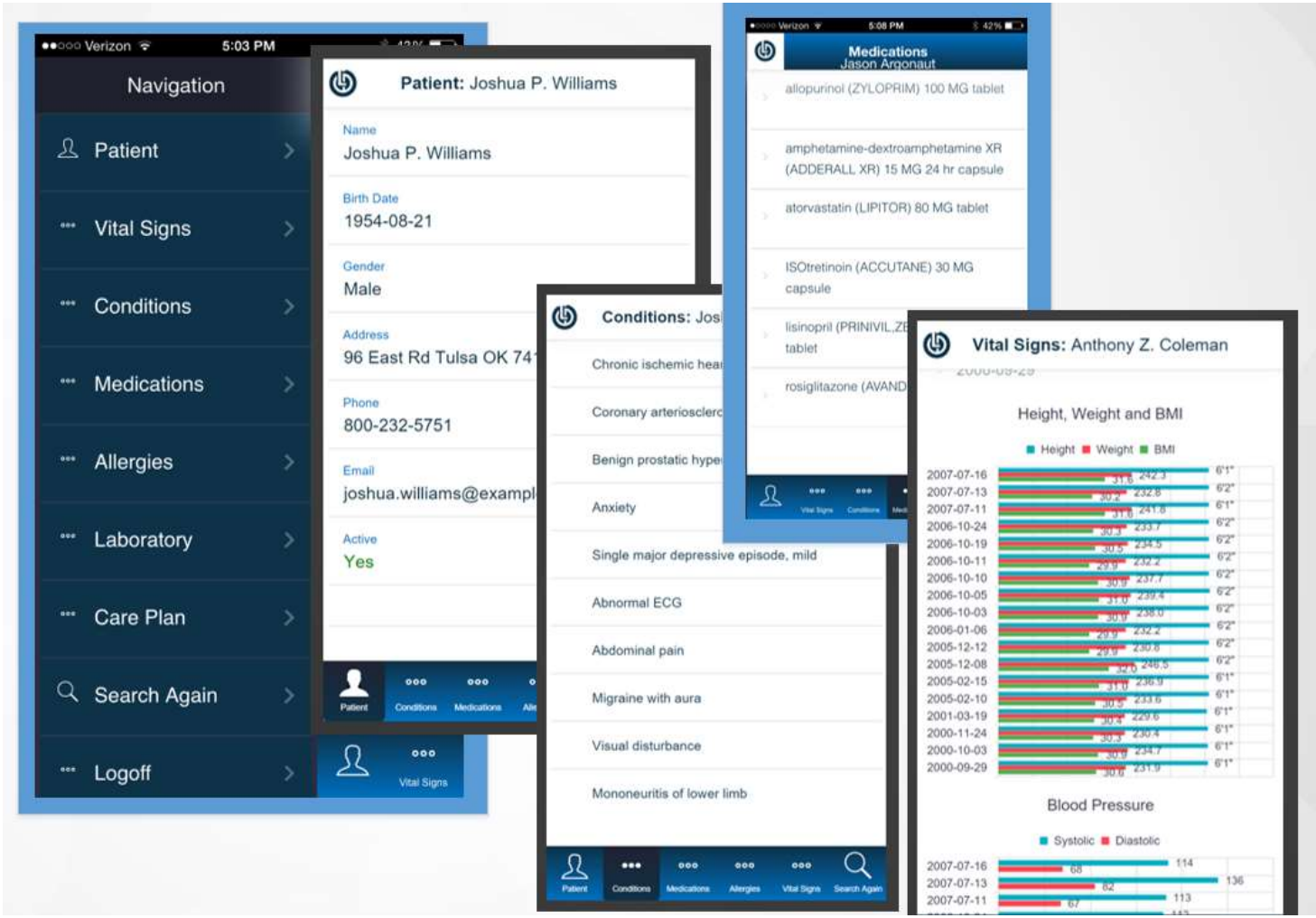
Screen shots from mobile FHIR access prototype app



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Value Proposition

- Provide a means for the patient to access a copy of their own medical data and share their medical data with other clinicians, family members, and advocates as defined by that patient.
- Enable the patient to have a copy of their own medical data at their fingertips for easy reference
- Enable the patient to use 3rd party FHIR-based applications that provide value add based on their own medical data.
- Enable the patient to share de-identified patient clinical data with a research group approved by the patient
- Enable the patient to allow a nursing home, approved by Alice, to have access to her clinical data
- Empower the patient to engage in their own health plan and management, thereby improving individual health.
- Accelerate healthcare interoperability on a patient by patient basis.
- Reduce the need for repeat tests when current test results are available.
- Provide a method to share their care plan from one provider to another.

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Competitive Advantages

- Supports patient controlled data sharing
- Provides methods for patient to define their sharing policies electronically and allow users to access electronically authorizing against the patient's policies.
- Supports 3rd party interoperability
- Enables creation of patient centered apps

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Deliverables

- Web-based application to provide UI to HealthyMePHR, that will be available on desktops, laptops, ipads and mobile phones.
- Back-end software to support defined functionality.
- Enhanced PHR to support HEART/FHIR including patient sharing policy, access control and authentication