

Rest here

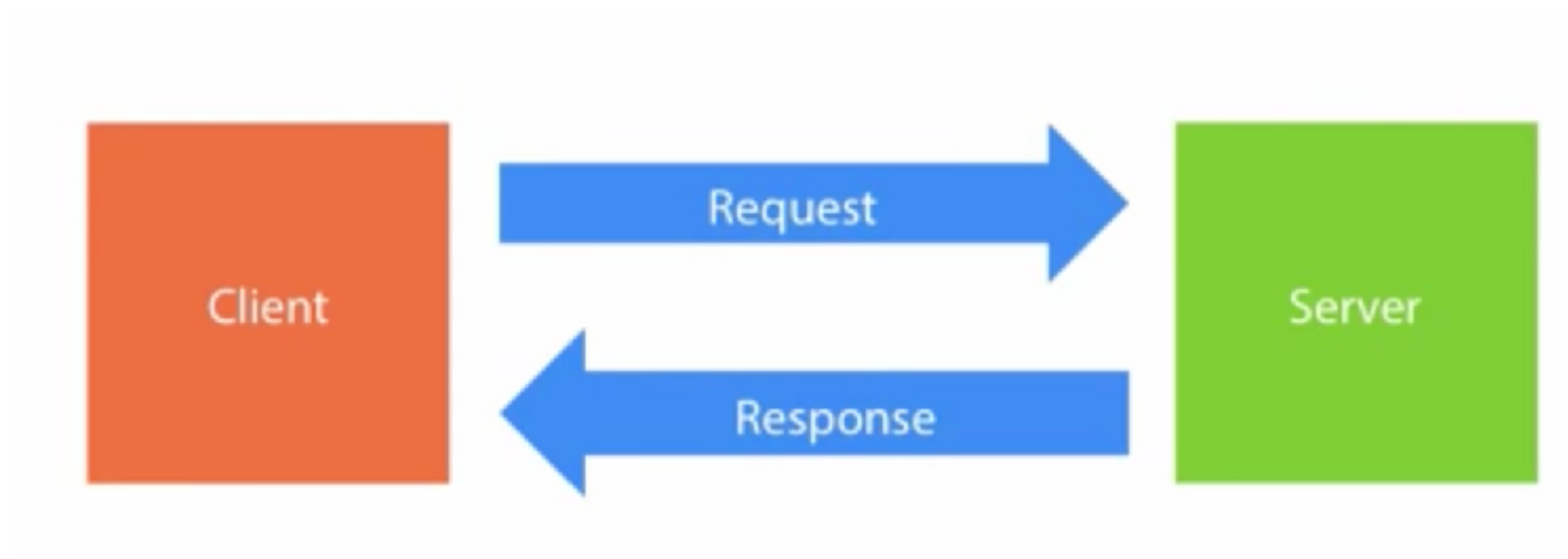




# Designing REST

**For services**

For client



# RESTFul

**POST** : Add data

**GET** : Retrieve data

**DELETE** : Delete data

**PUT** : Update data



# HTTP Code

Code	Name	Description
200	OK	Everything is working
201	Created	New resource has been created

[https://en.wikipedia.org/wiki/List\\_of\\_HTTP\\_status\\_codes](https://en.wikipedia.org/wiki/List_of_HTTP_status_codes)



# HTTP Code

Code	Name	Description
301	Moved Permanently	
302	Found	Temporary redirect
304	Not Modified	The client can use cached

[https://en.wikipedia.org/wiki/List\\_of\\_HTTP\\_status\\_codes](https://en.wikipedia.org/wiki/List_of_HTTP_status_codes)



# HTTP Code

Code	Name	Description
400	Bad Request	Everything is working
401	Unauthorized	New resource has been created
403	Not Modified	The client can use cached data
404	Not found	There is no resource behind the URI
422	Unprocessable Entity	

[https://en.wikipedia.org/wiki/List\\_of\\_HTTP\\_status\\_codes](https://en.wikipedia.org/wiki/List_of_HTTP_status_codes)



# HTTP Code

Code	Name
500	Internal Server Error
502	Bad Gateway
503	Service Unavailable

[https://en.wikipedia.org/wiki/List\\_of\\_HTTP\\_status\\_codes](https://en.wikipedia.org/wiki/List_of_HTTP_status_codes)



# Example









# Bug tracking

## Bug

























## Bug board

Backlog 	Working 	QA 	Done 



# Bug tracking



Stories	To Do		In Progress	Testing	Done
 This is a sample text. Replace it with your own text.	 This is a sample text. Replace it with your own text.	 This is a sample text. Replace it with your own text.	 This is a sample text.	 This is a sample text.	 This is a sample text. Replace it with your own text.
	 This is a sample text. Replace it with your own text.	 This is a sample text. Replace it with your own text.	 This is a sample text.	 This is a sample text.	
	 This is a sample text. Replace it with your own text.	 This is a sample text. Replace it with your own text.	 This is a sample text.	 This is a sample text.	 This is a sample text. Replace it with your own text.
 This is a sample text. Replace it with your own text.	 This is a sample text.	 This is a sample text.	 This is a sample text.	 This is a sample text.	 This is a sample text. Replace it with your own text.
	 This is a sample text.	 This is a sample text.	 This is a sample text. Replace it with your own.	 This is a sample text.	



# Let's start to design service



# Step to design service

List of **requirements**

Identify the **state transitions**

Identify the **resources**

Design the **media types**



# 1. Requirements

Bugs in each workflow states

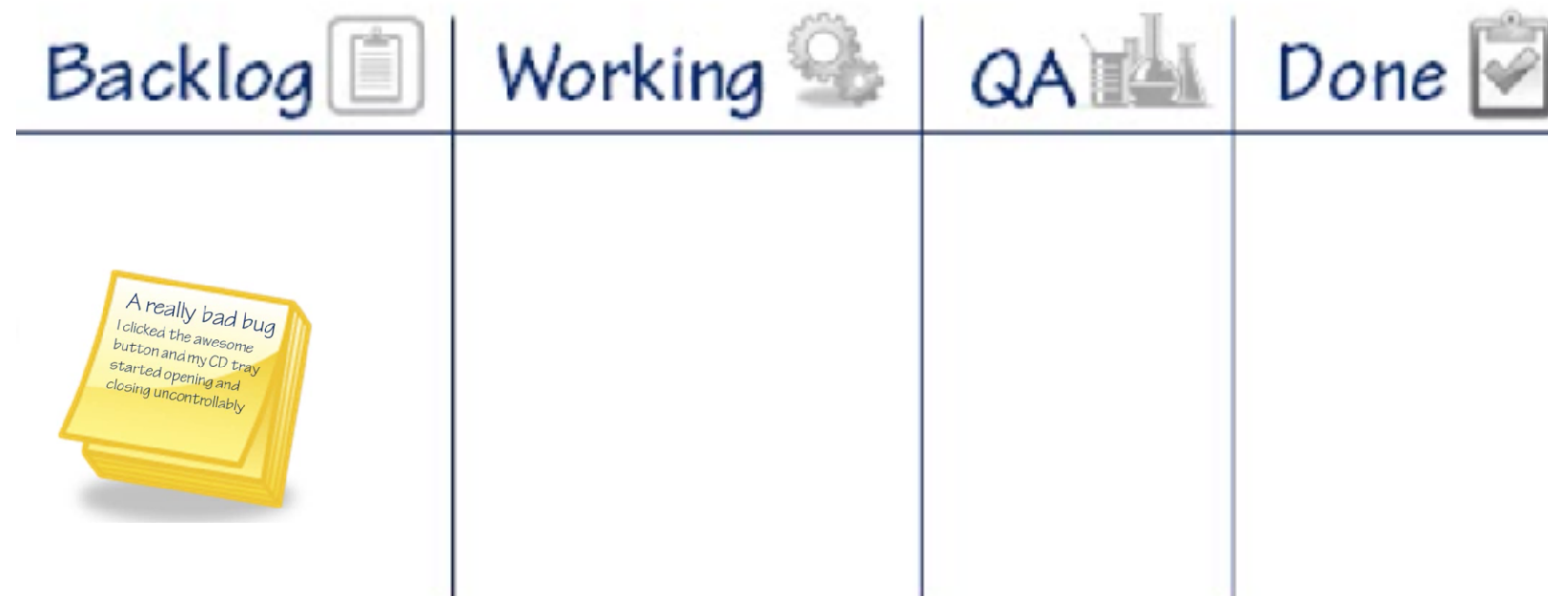
1. Backlog
2. Working
3. QA/Testing
4. Done





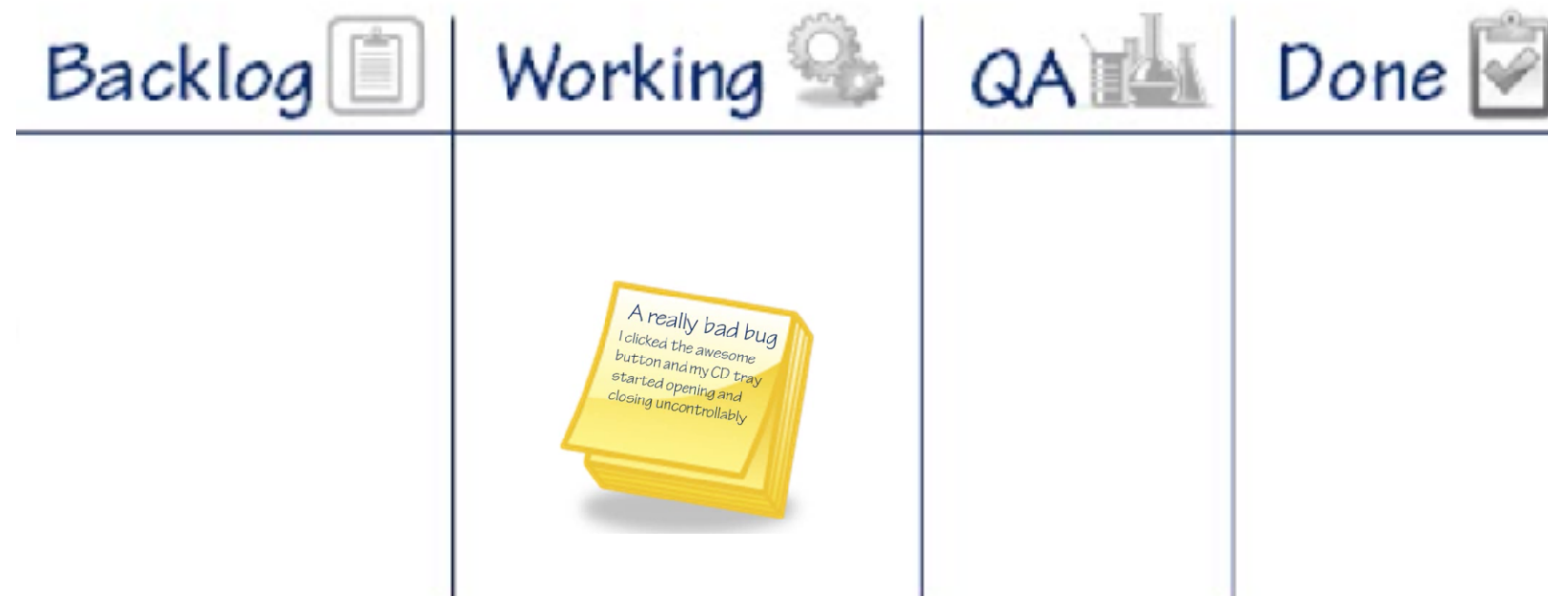
# 1. Requirements

Add a new bug to the backlog



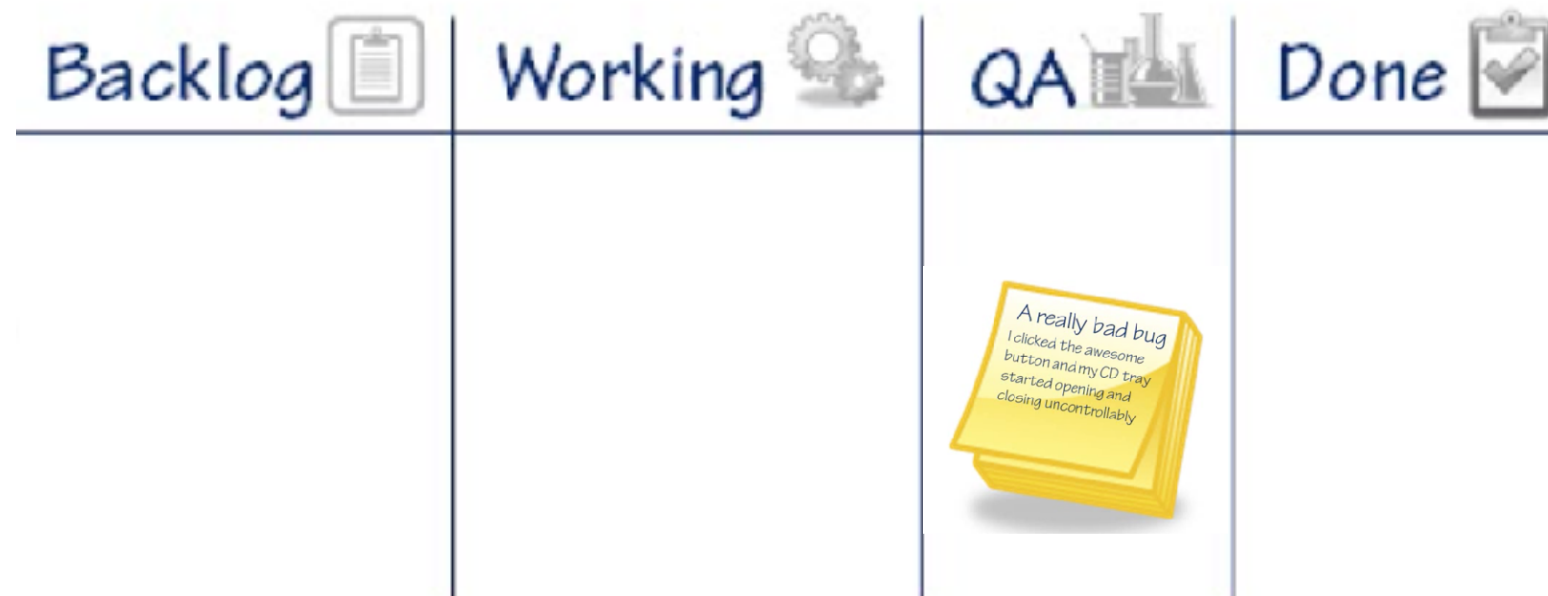
# 1. Requirements

Move a bug to other state



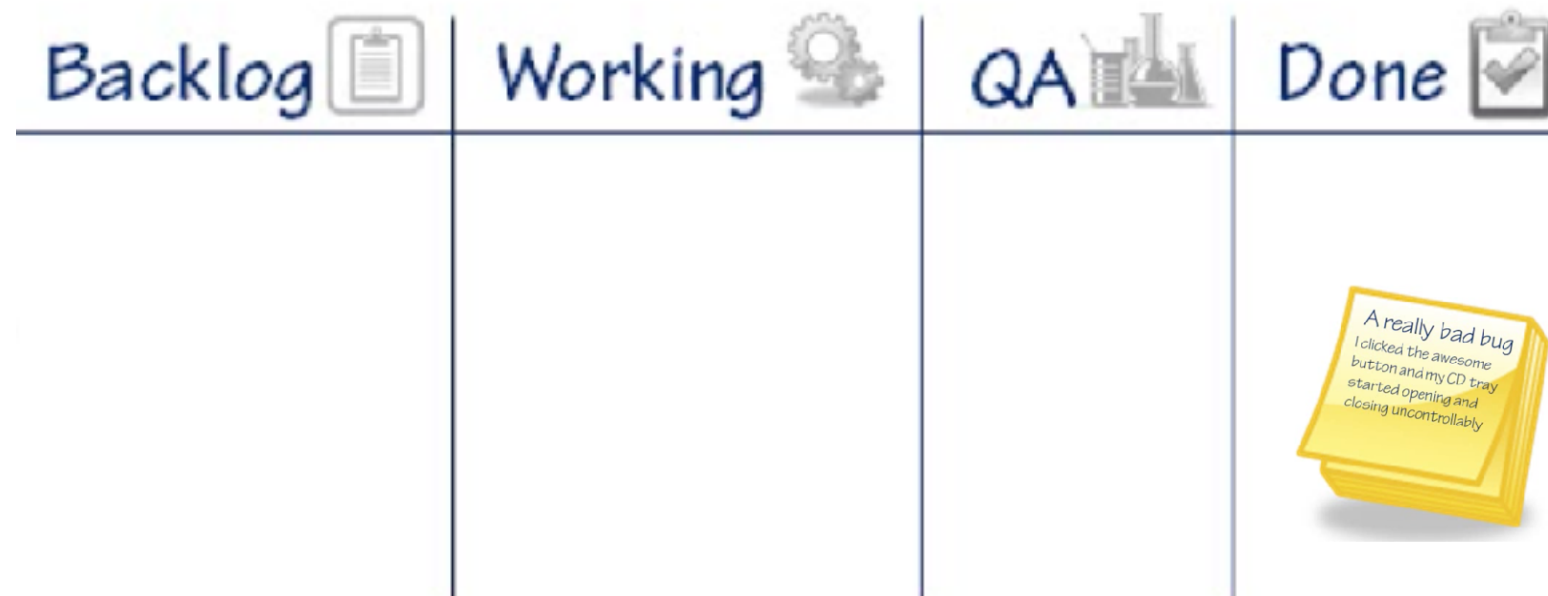
# 1. Requirements

Move a bug to other state

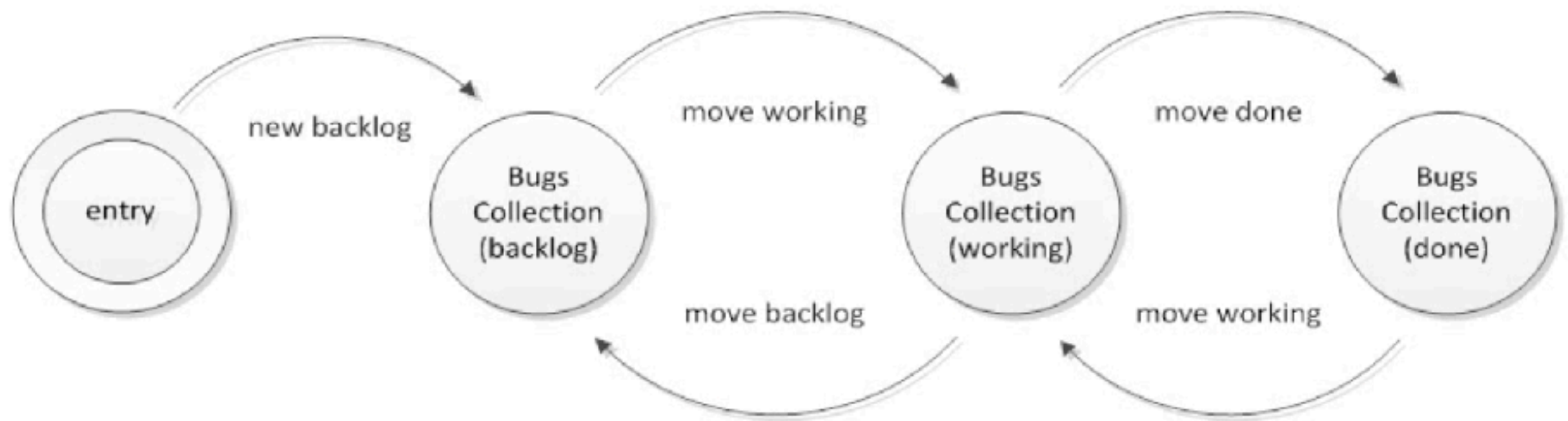


# 1. Requirements

Complete a bug

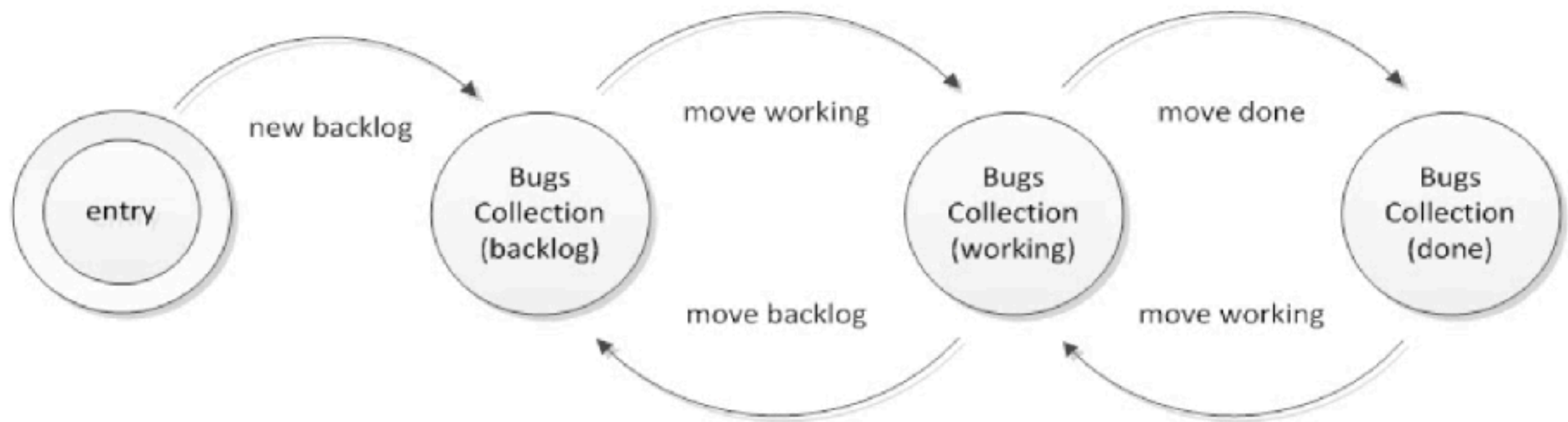


## 2. Application state transition

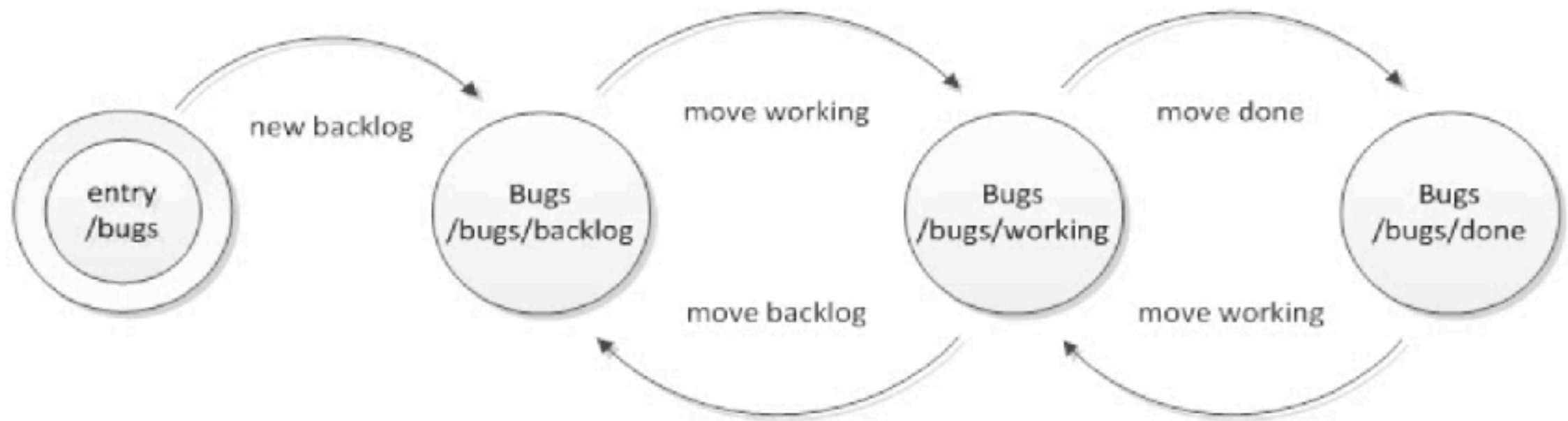




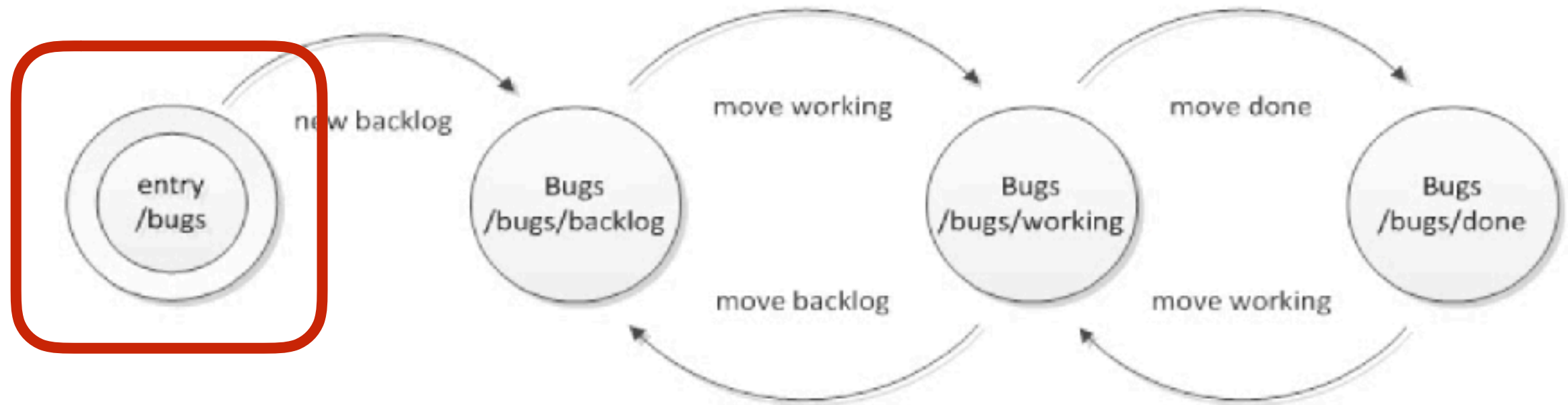
# 3. Identify the resources



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# 3. Identify the resources

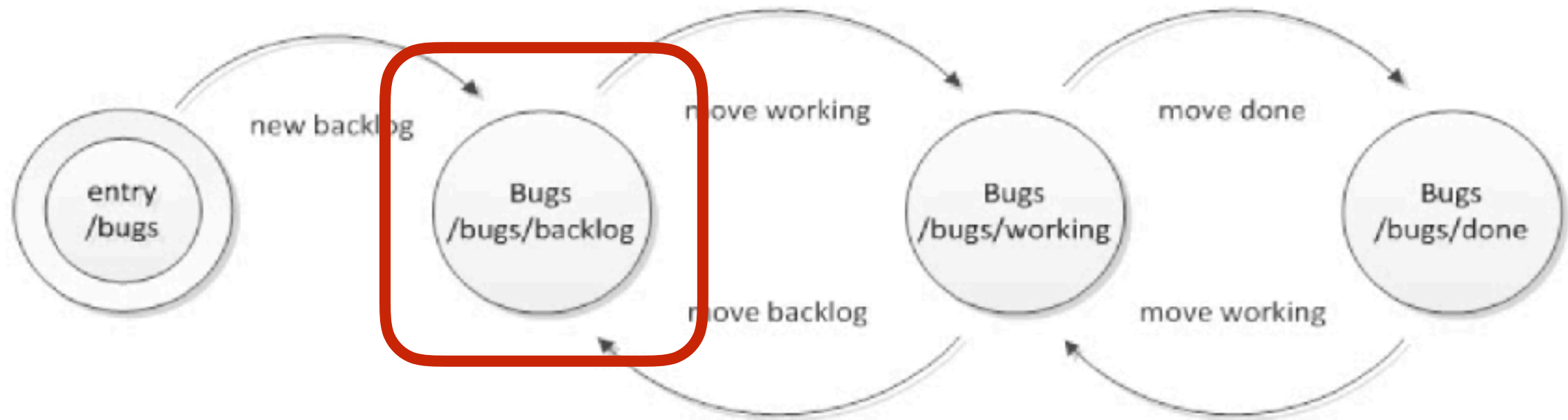


**/bugs** is entry point

Resources	HTTP Method	Description
/bugs	GET	List of bugs
/bugs/:id	GET	Get bug information
/bugs	POST	Create new bug



# 3. Identify the resources

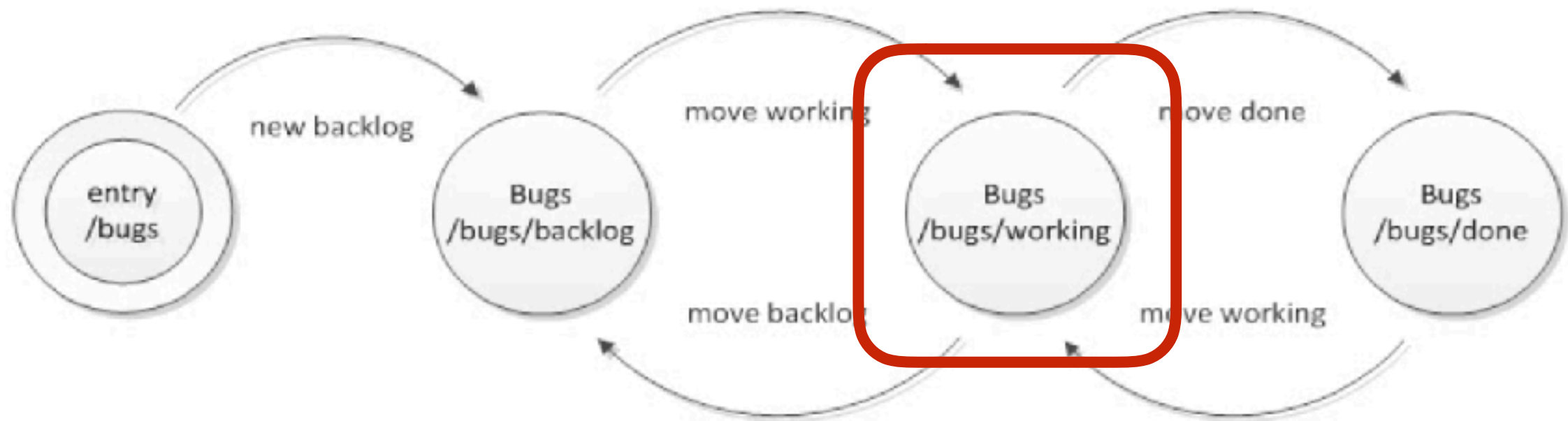


**/bugs/backlog**

Resources	HTTP Method	Description
/bugs/backlog	GET	List of bugs in backlog
/bugs/backlog	POST	Add new bug to the backlog



# 3. Identify the resources



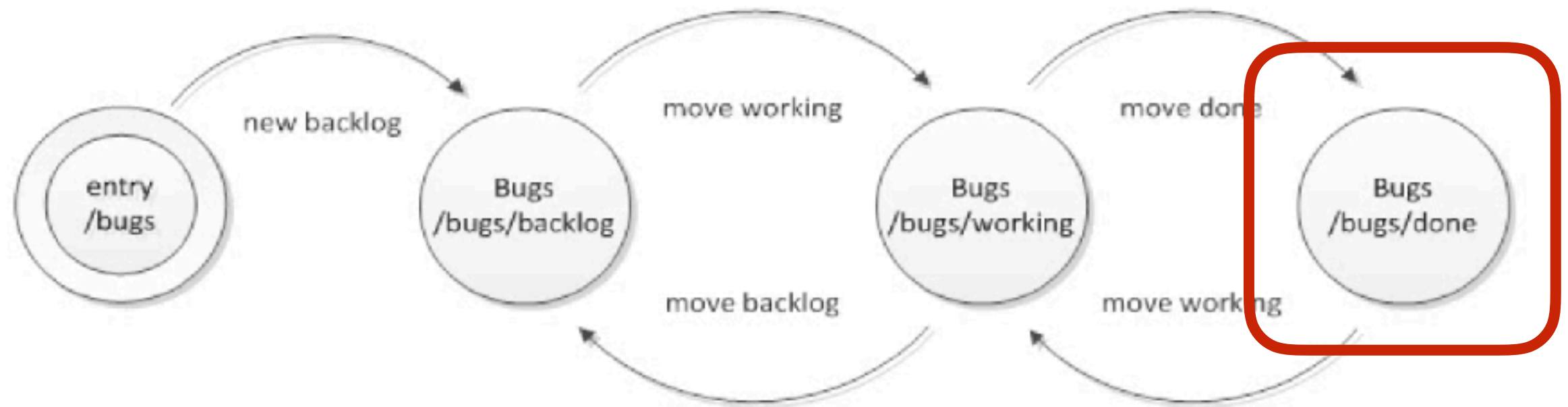
**/bugs/working**

Resources	HTTP Method	Description
/bugs/working	GET	List of bugs in working
/bugs/working	POST	Activate a bug





# 3. Identify the resources



**/bugs/done**

Resources	HTTP Method	Description
/bugs/done	GET	List of bugs in done
/bugs/done	POST	Complete a bug



# 4. Design media types

TEXT, HTML, XML, JSON and etc.

```
{  
  "id": 1,  
  "title": "Bug 01",  
  "description": "Bad Bug",  
  "status": "new|backlog|working|done"  
}
```



# 4. Design media types

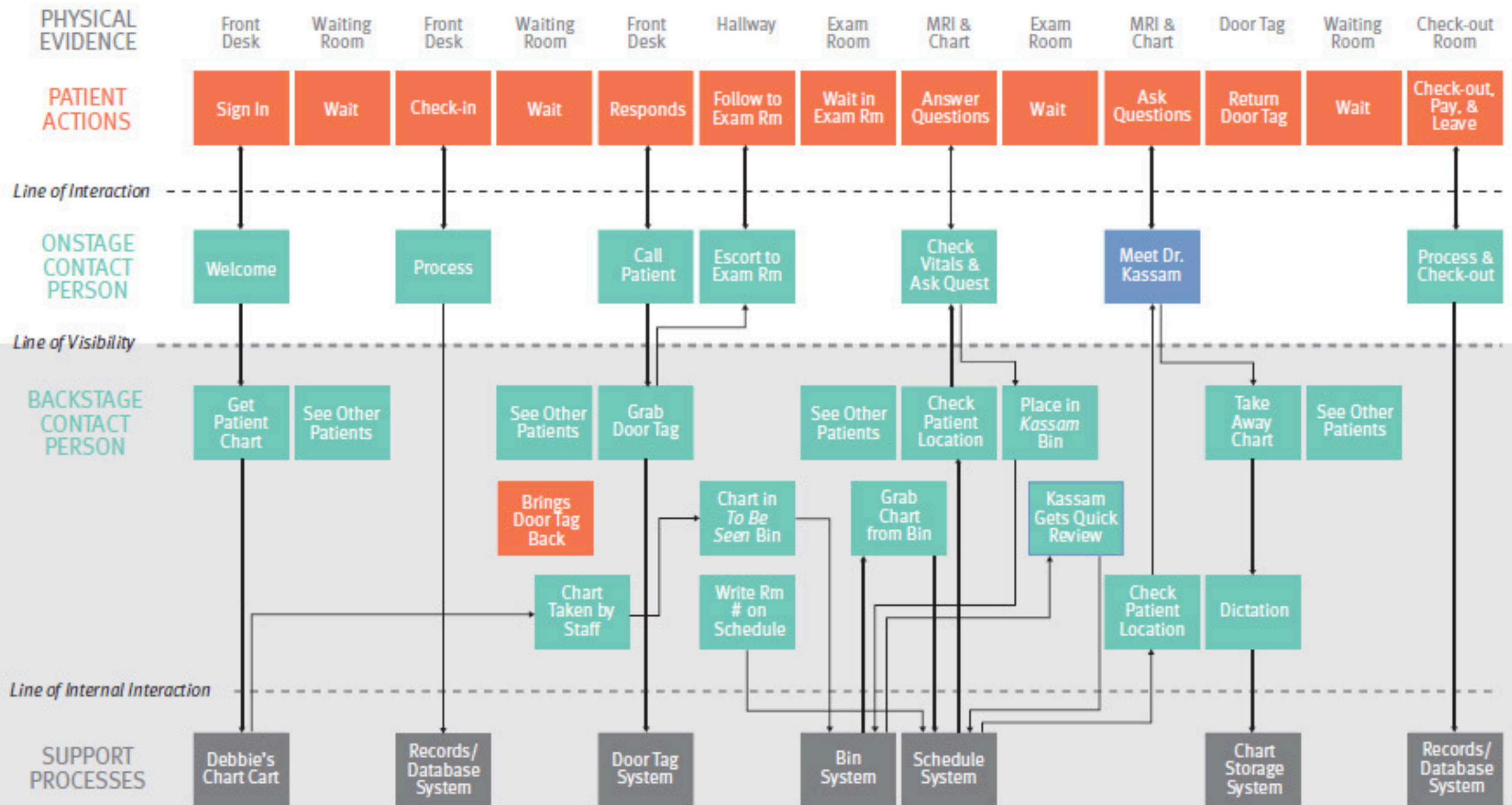
```
[
  {
    "id": 1,
    "title": "Bug 01",
    "description": "Bad Bug",
    "status": "new"
  },
  {
    "id": 2,
    "title": "Bug 02",
    "description": "Bad Bug",
    "status": "backlog"
  },
  {
    "id": 3,
    "title": "Bug 03",
    "description": "Bad Bug",
    "status": "working"
  }
]
```



# Service design blueprint

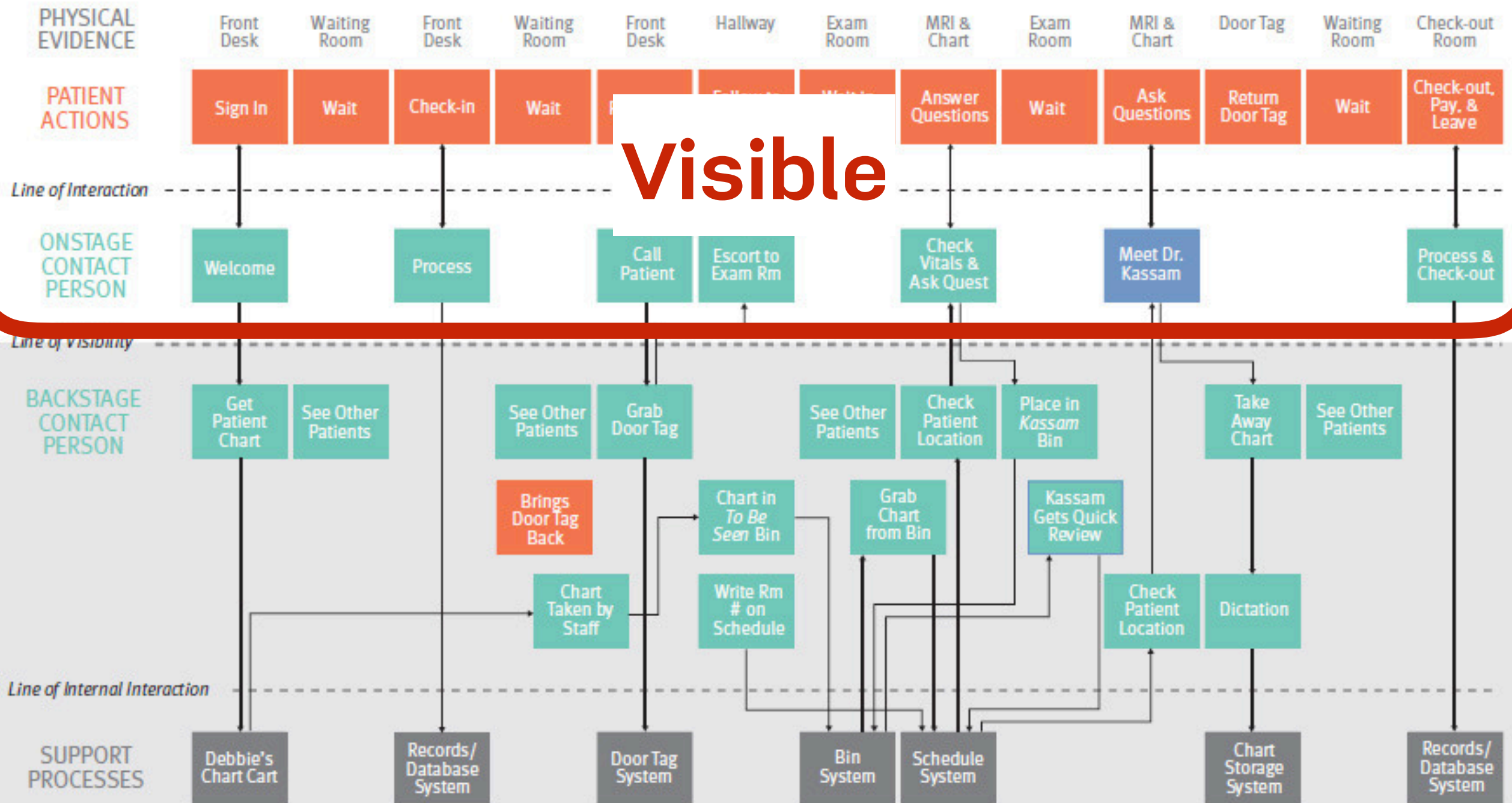


# Service Blueprint of Presby Neuro Clinic

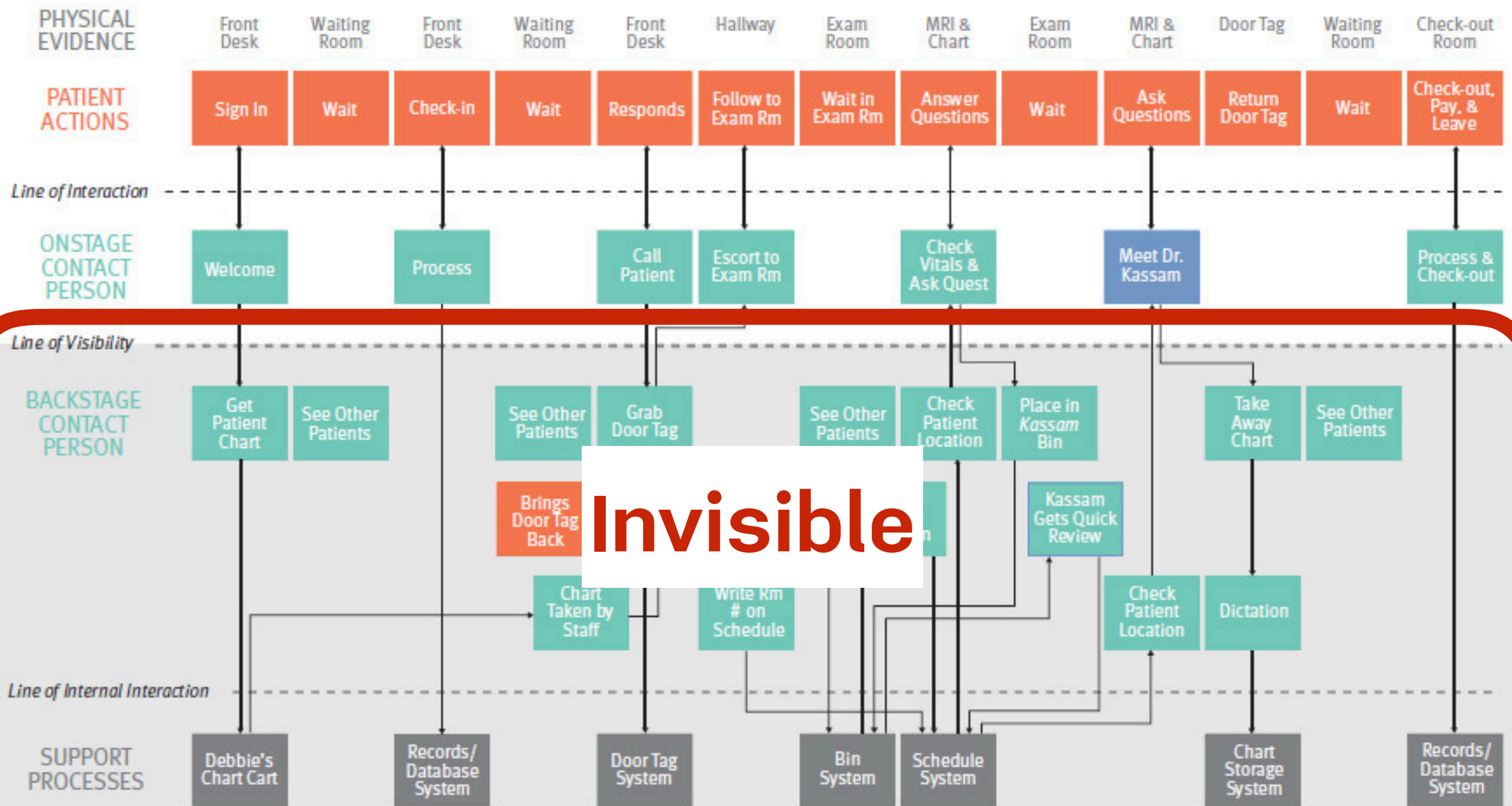




# Service Blueprint of Presby Neuro Clinic



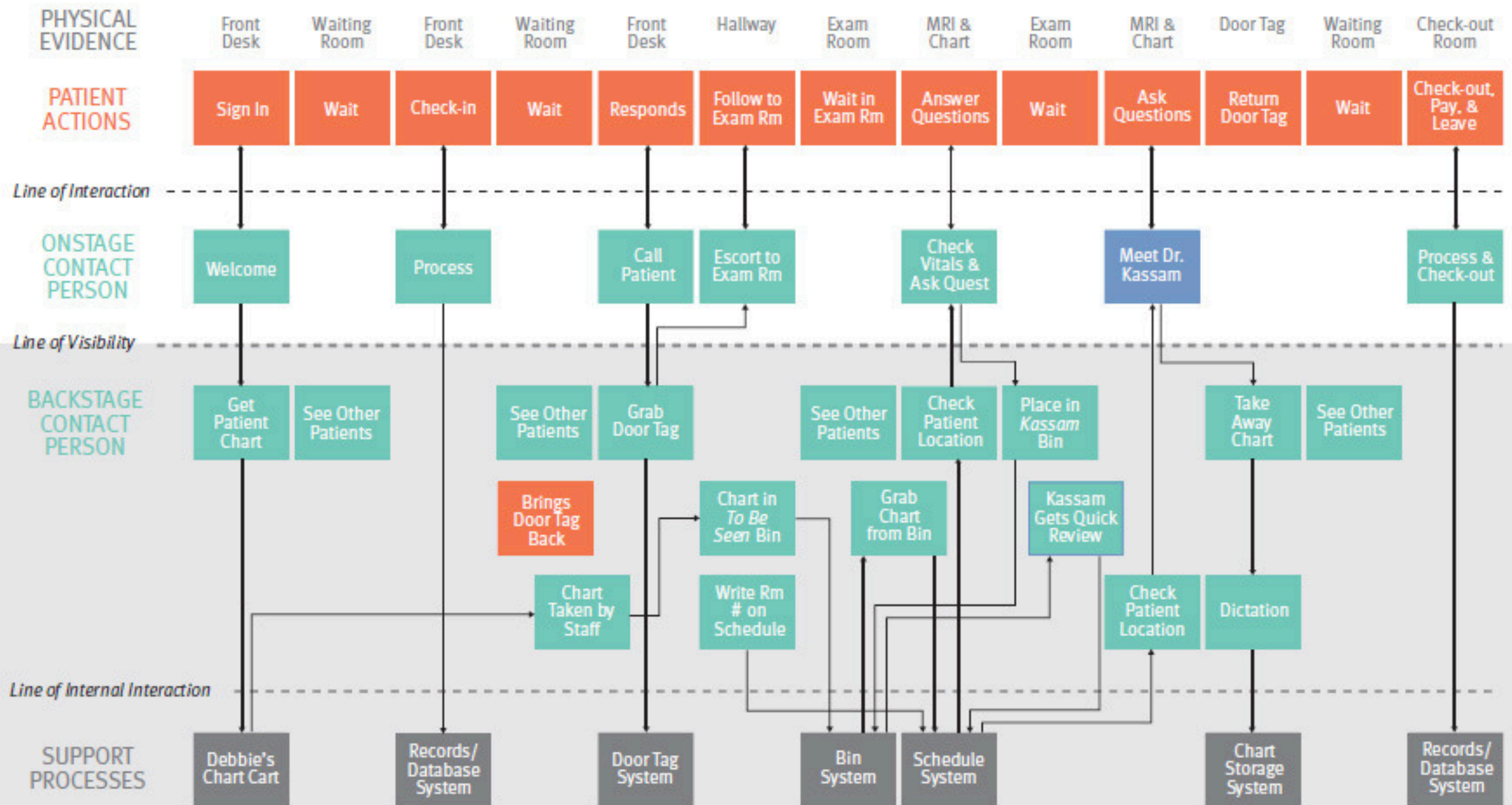
# Service Blueprint of Presby Neuro Clinic



Invisible



# Service Blueprint of Presby Neuro Clinic



# Quiz ?

